SPECIAL RESOURCES ISSU

Southern California's Computer Magazine December 11, 1989 • 64

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1990

The Computer & Software Buyers Guide

The MicroTimes Guide To Computer Dealers & Resellers

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MicroTimes Writers Pick The Best Hardware & Software Of 1989

Products For PC, Mac, Networks & More

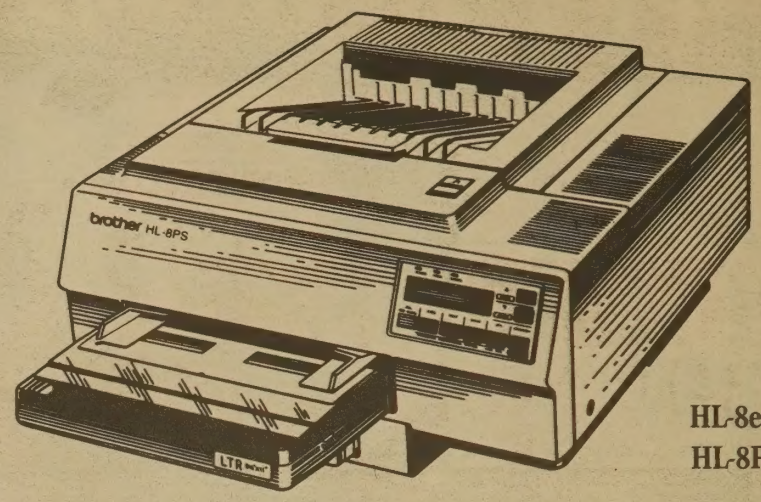
PC WORLD BEST BUY
2/89 HL-8

PERSONAL COMPUTING TOP RATED
9/89 HL-8e

PC MAGAZINE EDITOR'S CHOICE
10/88 HL-8

PC MAGAZINE EDITOR'S CHOICE
11/89 HL-8e

PC MAGAZINE EDITOR'S CHOICE
11/89 HL-8PS



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HL-8PS

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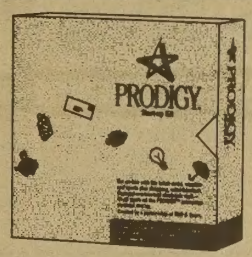

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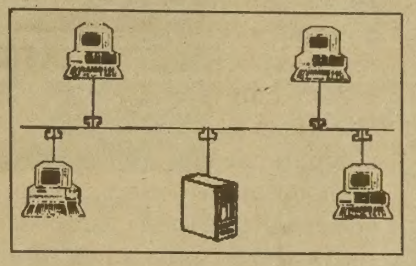

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DEC. 11, 1989 ISSUE #64
MICROTIMES™

1990 The Computer & Software Buyers Guide

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The MicroTimes Southern California Reseller Guide

So you're in Long Beach and need to talk to a Novell specialist pronto? Or you're in Pasadena with a Sad Mac and need repair service fast?

Well, help is on the way. Hundreds of resellers and computer dealers told us about their specialties, product lines, and resident experts, and we've gathered the information so you can use it as a year-round resource.

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The First Annual MicroTimes Semi-Free-For-All Writers' Poll

A diverse and opinionated lot, our writers and columnists hold forth on their favorite software and hardware products for 1989. Some will probably come as no surprise to anybody—apparently, to know the HP LaserJet II is to love it—but some undiscovered gems get their moment in the spotlight too.

BUYERS GUIDE

PC
Business **72, 74, 138**
LAN **76, 78**
Laptops **80, 82, 85**
Telecommunications **86, 88**
Storage **90, 92**
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Potpourri **122, 124**

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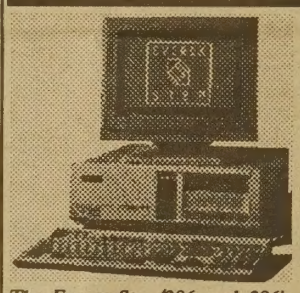

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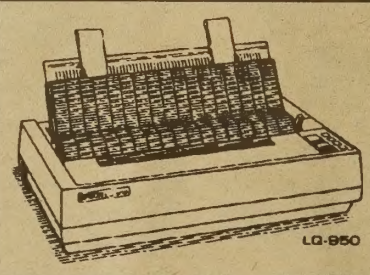

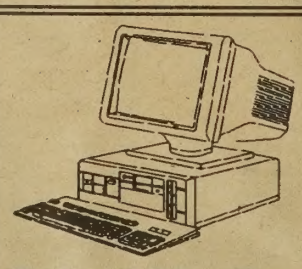

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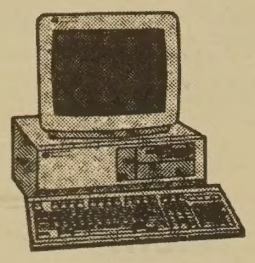

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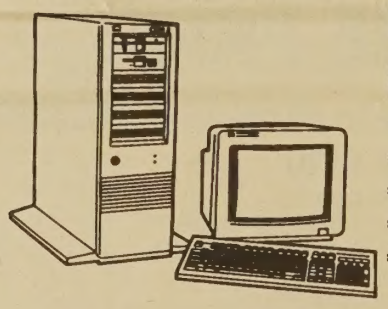

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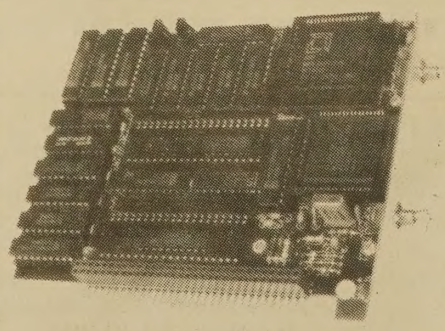

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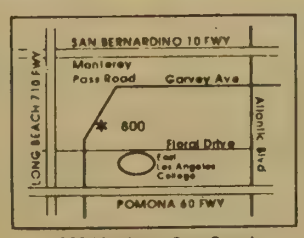

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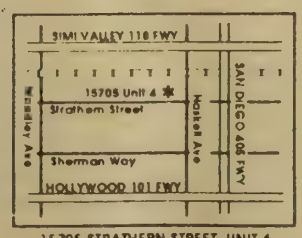

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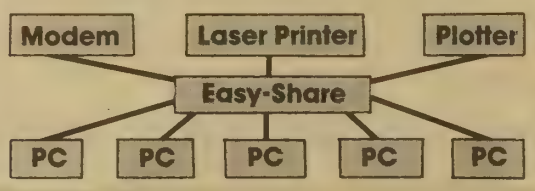

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January 23–25 International Conference On Wafer Scale Integration. San Francisco. IEEE Computer Society. Call: (301)765-1247.

January 25–26 Macintosh Marketing Conference. Burlingame. MacUser magazine. Call: 1-800-234-6434.

January 29–February 1 Internetworking Tutorial. Los Angeles. Advanced Computing Environments. Call: (415)941-3399.

January 30–February 2 Expert Systems Design & Development: Hands-on Workshop Course. Los Angeles. Integrated Computer Systems. Call: John Valenti, 1-800-421-8166.

January 31–February 2 Software Maintenance Class. Los Angeles. Integrated Computer Systems. Call: 1-800-421-8166.

January 31–February 2 Alliance '90. Tokyo. DEFTA, Inc. Call: (415)424-0940.

February 5–6 Implementation Strategies For Integrating Expert Systems Into Mainstream Computing Seminar Series. San Diego. Decision Support Technology. Call: Donna Kacin, (617)354-6400.

February 5–9 6th International Conference On Data Engineering. Los Angeles. IEEE Computer Society. Call: (202)371-1013.

February 6–9 Security For Computer And Communication Systems Course. Los Angeles. Integrated Computer Systems. Call: John Valenti, 1-800-421-8166.

February 6–9 Software Development '90. Oakland. Software Development Seminars. Call: (415)995-2471.

February 12–15 Systems/USA: The OEM Systems/Subsystems Conference And Exposition. San Jose. American Electronics Association. Call: (408)987-4200.

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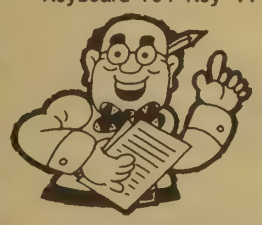

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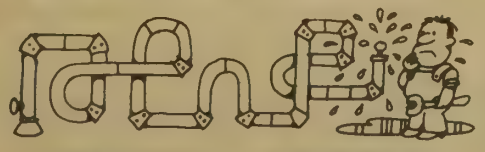

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February 13–16 Computer Graphics: Software Techniques & Hardware Components Course. Los Angeles. Integrated Computer Systems. Call: 1-800-421-8166.

February 22–25 TED2 Communications Conference. Monterey. Technology Entertainment Design. Call: (213)832-9396.

February 26–March IEEE Computer Society COMPCON Spring '90. San Francisco. IEEE Computer Society. Call: (202)371-1013.

February 27–March 2 Introduction To Telecommunications Course. Los Angeles. Integrated Computer Systems. Call: John Valenti, 1-800-421-8166.

February 27–March 2 Network Cabling & Wiring Techniques Course. Los Angeles. Integrated Computer Systems. Call: 1-800-421-8166.

March 7–8 UNIX And Open Systems Symposium. Toronto. Datapro. Call: (212)512-3851.

March 13–16 Software Quality Assurance & Testing Course. Los Angeles. Integrated Computer Systems. Call: 1-800-421-8166.

March 14–16 Software Maintenance Class. Los Angeles. Integrated Computer Systems. Call: 1-800-421-8166.

March 19–21 Fast Arithmetic Algorithms And Implementations For Computationally Intensive Applications Short Course. Northridge. UCLA Extension. Call: (213)825-1901.

March 19–23 Quantitative Methods In Software Management Short Course. Northridge. UCLA Extension. Call: (213)825-1901.

March 27–29 DB/Expo. San Francisco. Norm De Nardi Enterprises. Call: (415)941-8440.

March 28–30 Product Planning & Evaluation Course. Los Angeles. Integrated Computer Systems. Call: 1-800-421-8166.

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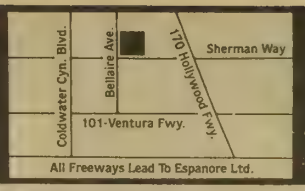

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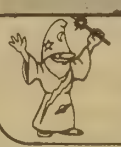

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The MicroTimes Southern California Computer Reseller Guide

Ever know what you wanted but not where to get it? Ever wish you could go straight to a shop with the right experts for your particular requirements, rather than fish around at a dozen different places?

If you want to set up a network in your office, you want to go some place that has NetWare experts; if you need a DTP workstation, you want to talk to people with expertise in electronic publishing; if business accounting is your requirement, you don't want to deal with a staff that's knowledgeable about anything but.

With that in mind, we put together a list of computer hardware and software resellers in California, sorted by region and indicating what fields they specialize in and who they have as resident experts in those fields.

This *MicroTimes* Computer Reseller Guide is the first of what will be an annual list of resellers. We offer it to you as a valuable resource for you to keep on hand in the months to come.

—MicroTimes editors

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Microsoft
In-house experts:
Jim Foran
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, manufacturer's warranties, guarantees, return policy

J. R. GILL & SON

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Phone: (714)592-1814
Specialties:
Educational
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Desktop Publishing
Operating systems supported:
DOS
ProDOS
Best-selling product lines:
Microsoft
Software Publishing
Brøderbund
In-house experts:
John Gilkinson
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
In-school, office, or home demonstration

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City: Moreno Valley Zip: 92388
Phone: (714)242-3443
Specialties:
Accounting
LANs
Home Entertainment
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Microsoft Mouse
Panasonic Printers
Samsung Monitors
In-house experts:
Byron Hayes
Larry Min
Chris Swan
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Classes with each system sold, warranties and guarantees, service

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Specialties:
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Custom Software
Database
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Everex
AST
NEC
In-house experts:
Don Williams
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Full service on all hardware sold, software training and support

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City: Redlands Zip: 92374
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Specialties:
Desktop Publishing
Accounting
LANs
Operating systems supported:
DOS
MacOS
Best-selling product lines:
Hyundai
DTK
Toshiba

LA/Hollywood

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City: Los Angeles Zip: 90064
Phone: (213)477-4505
Specialties:
Legal
Real Estate
Novell Networks
Operating systems supported:
DOS
Best-selling product lines:
AST
Toshiba
Leading Edge
In-house experts:
Rick Padillas
Danny Litt
Tim Goroley
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training (software), support, warranties, extended warranties, return policy

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Accounting
LANs (Novell)

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Hard & Floppy Controller Card
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Jim De Vico
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CAD Systems
Operating systems supported:
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OS/2
UNIX/XENIX
Best-selling product lines:
Hewlett-Packard
In-house experts:
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Phil Garin
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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LANs
Office Automation
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
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AT&T
AST
In-house experts:
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Eric Sloan
J. Carmen Gutierrez
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Custom Programming
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Operating systems supported:
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Best-selling product lines:
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Hewlett-Packard
Micronics
In-house experts:
Jonathan Handler
Joachim Steingrubner
Rico Richardson
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Specialties:
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PageMaker
Novell
Operating systems supported:
DOS
OS/2
MacOS
TOS
ProDOS
UNIX/XENIX
Best-selling product lines:
IBM
Macintosh
COMPAQ
In-house experts:
Jeff
Edwin
Eric
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support

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Store Manager: Andy Kogut
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Phone: (213)470-8600
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Training—Lotus and DOS
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In-house experts:
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PC Training

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Specialties:
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Law
Operating systems supported:
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CP/M
AmigaDOS X
OS/2
MacOS
TOS
ProDOS
UNIX/XENIX
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ATC
Star
Digital Research
In-house experts:
Mark Schindler
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Specialties:
Novell Networking
Desktop Publishing
Accounting (Computer Associates)
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
ARC
SCX
AST, Sharp
In-house experts:
Warren Henochowicz
Vuan
Thai
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Specialties:
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Databases
LANs
Best-selling product lines:
Apple
4th Dimension
Fox Base
In-house experts:
Amin Shahidi
Jerry Stets
Mohsan Moazami
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Orange County

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Specialties:
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Remote Data Transfer
LANs
Operating systems supported:
DOS
Best-selling product lines:
Alloy
Everex
In-house experts:
Dave Benson
Greg Benson
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Custom software training

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City: Santa Ana Zip: 92704
Phone: (714)545-7134
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286 AT
386 AT

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Operating systems supported:
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Best-selling product lines:
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DFI & Logitech Scanners
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Norman
Roy
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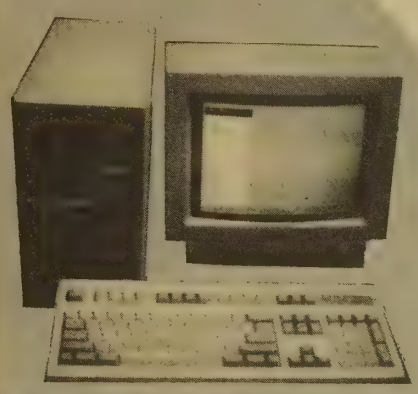

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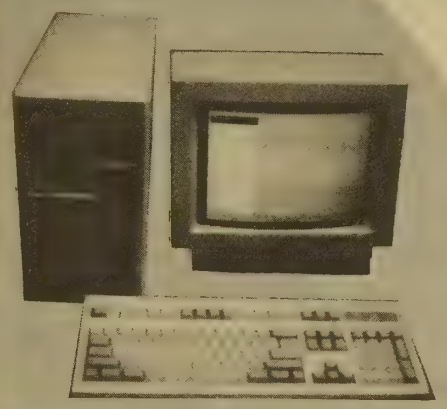
- Vertical Case w/Reset Button & LED light
- 200W Power Supply
- 101 Enhanced Keyboard
- Parallel Printer Port
- Monochrome Graphics Card
- Monochrome Monitor w/Swivel Base



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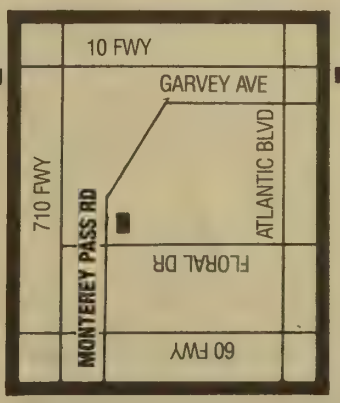

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CAD
Accounting / Office Management
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Compaq
IBM
Hyundai
In-house experts:
Hank Dang
Doug Dill
Kim Parker
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City: Anaheim Zip: 92806
Phone: (714)630-1470
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Specialties:
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Accounting
WANs
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
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Acer
AST
In-house experts:
Will Jamieson
Carl Allen
Clay Gradis
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City: Irvine Zip: 92715
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Specialties:
LANs
DBMs
Accounting
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
AT & C
Altos
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CAD
LANs
Systems
Operating systems supported:
DOS
OS/2
UNIX/XENIX
In-house experts:
Robert Lee
John Rittenhouse

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Store Manager: Randy Workman
Address: 722 W. Chapman #6
City: Orange Zip: 92668
Phone: (714)538-7164
Specialties:
CAD Systems
Graphics
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Hewlett-Packard
Paradise
Houston Instruments
In-house experts:
Randy Workman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support, warranties, 1-yr parts and labor

C.C.D.

Store Manager: Jim Dayan
Address: 1261 S. Lyon St. #H403
City: Santa Ana Zip: 92705
Phone: (714)541-0444
Specialties:
IBM
Compaq
Hewlett-Packard
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Hewlett-Packard
Epson
Toshiba
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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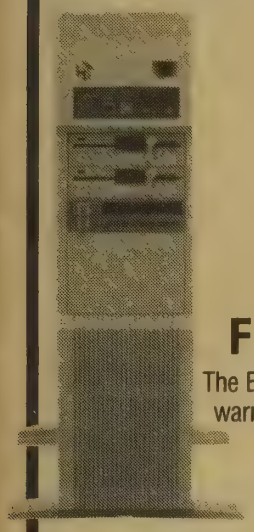

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- 65MB Mitsubishi HD 28 M/S 1:1 Interleave
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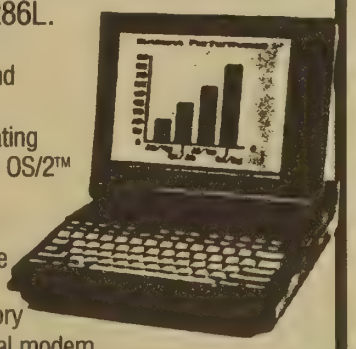

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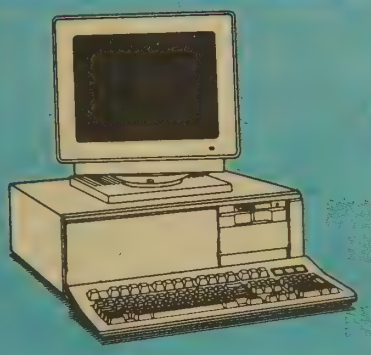

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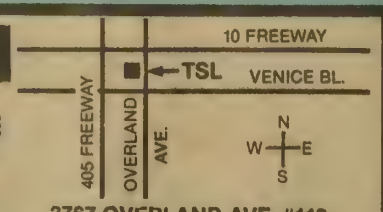
SAT: 9:30AM – 5:30PM



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LOS ANGELES, CA 90034
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CIRCLE DISK NUMBERS DESIRED:

Number of disks____ x $2.89 each = _____
($2.39 each 10 or more disks)
3.5" disks - add $1 ea. = _____
CA residents add 6.5% sales tax = _____
Shipping and handling = $3.50
Total = _____

Pay for Each Disk In Multiple Disk Sets

We accept | MC/VISA, | Check, | Money Order, COD (Add $4 for COD).

Name _____
Address _____
City/State/Zip _____
VISA/MC # _____
Exp. Date _____

MT 12/89

3767 Overland Ave., #112, Los Angeles, CA 90034
(213) 559-5456
CALL OR WRITE FOR FREE CATALOG

D-LINK SYSTEMS, INC.

Store Manager: Roger Kao
Address: 5 Musick
City: Irvine Zip: 92718
Phone: (714)455-1688
Specialties:
LANsmart (LAN)
LANmagic
NetWare
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
D-Link
Novell
IBM
In-house experts:
Rob Salgado
Steve Joe
Connie Lee
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, warranties, return policy, service, guarantees

DATA WEST

Store Manager: Shawn Scala
Address: 23392 Madero, Suite M
City: Mission Viejo Zip: 92691
Phone: (714)770-3344
Other store locations: 12401 Ventura Blvd., Ste. A , Studio , CA 91604
Specialties:
Laser Printing
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Xerox Laser Printers
Dysan Diskettes
Custom Anti-glare Filters
In-house experts:
Sheila Cohen

DISKOVERY SOFTWARE

Store Manager: John Gilkinson
Address: 480 W. Lambert Rd. #C
City: Brea Zip: 92621
Phone: (714)529-9808
Specialties:
Educational
Home Productivity
Distribution
Operating systems supported:
DOS
ProDOS
Best-selling product lines:
Brøderbund
Microsoft
Learning Co.
In-house experts:
John Gilkinson
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, demonstration

DURGAN-WAKE & ASSOC.

Store Manager: Bruce Humann
Address: 881 W. 16th St.
City: Newport Beach Zip: 92663
Phone: (714)631-8835
Specialties:
LANs
Best-selling product lines:
Novell
Everex
WordPerfect
In-house experts:
Dewie Wake
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, after-sales support, service contracts, installation

EL TORO COMPUTER SOLUTIONS

Store Manager: Gene Whatley
Address: 23361 El Toro Rd. #101
City: El Toro Zip: 92630
Phone: (714)951-4617
Specialties:
LANs
Database
Custom Programming
Operating systems supported:
DOS
CP/M
Best-selling product lines:
Everex
Alloy
Kman/2
In-house experts:
Teresa Whatley
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, consulting

ELECTRONIC BUSINESS COMPUTERS

Store Manager: Charlie Yuson
Address: 1772 W. La Palma Ave.
City: Anaheim Zip: 92801
Phone: (714)778-1795
Specialties:
Micro Computers
Peripherals
Operating systems supported:
DOS
Best-selling product lines:
AST
Packard Bell
Bondwell Laptop Computer
In-house experts:
Charlie Yuson
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support, service, DOS training

GAMMA INTERNATIONAL

Store Manager: Raymond Lin
Address: 12362 Beach Blvd. #3
City: Stanton Zip: 90680
Phone: (714)898-4179
Specialties:
Accounting
Medical
Novell
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Panasonic
Hewlett-Packard
Everex
In-house experts:
Dee Lew
Jerry Hom
Jim Ma
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, consulting, full warranty service, on-site service contracts

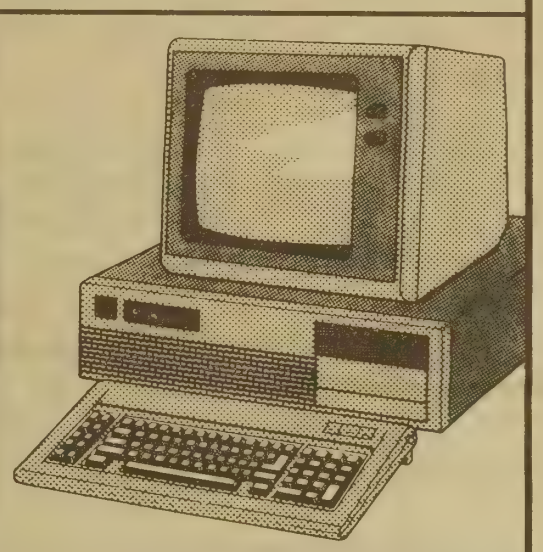
HLC COMPUTER

Store Manager: Helen Chang
Address: 2467 E. Orangethorpe
City: Fullerton Zip: 92631
Phone: (714)871-6400
Specialties:
Novell LANs
Accounting
Operating systems supported:
DOS

20 MHz 386

- X' Golden 20/25 MHz Motherboard
- 1 MB Memory on Board
- Exp. to 8 MB Memory On Board
- Both 287 & 387 Co-processor Socket
- 6 Layer Board with 2-32, 5-16, & 1-8 Bit slots
- Chip & Technology 386 Chips set
- Hard/Floppy Disk Drive Controller
- One 1.2 MB Floppy Disk Drive
- AT IO Card with Serial & Parallel Port
- Mono Graphic Card W. Printer Port
- Mono Amber Monitor
- AT Turbo Case
- 200 Watt Power Supply
- 101 Enhanced Keyboard

$1189



386 16 MHz SX

- Neat 16MHz 386SX 0 Wait Motherboard
- 1 MB Memory on Board
- Chip & Technology 386SX Neat Chip set
- Hard/Floppy Disk Controller
- One 1.2 MB Floppy Disk Drive
- AT IO Card with Serial & Parllel Port
- Mono Graphic Card W. Printer Port
- Mono Amber Monitor
- AT Turbo Case
- 200 Watt Power Supply
- 101 Enhanced Keyboard

$899

SPECIAL SYSTEM UPGRADE

EGA/VVGA/SYNC VGA $375/399/499
Panasonic 1124 Printer $319
VGA CARD 1024 x 768 EXP. TO 512K $135

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Fullerton, CA 92631
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101439-002	Amber Dual Mode Monitor	80.00
102705-001	286 Multipurpose Cont.	79.00
102776-002	84 Key Deskpro 286 Keyboard	69.00
104174-001	8 MHz 286 Multi. FD Cont.	95.00
106374-001	Deskpro Sys. Bd. Ver. 3	119.00
106434-001	8 MHz 286 Sys. Bd. Ver. 2	159.00
106707-001	12 MHz 286 System Bd.	169.00
108067-001	101 Key Enhanced Keyboard	75.00
113446-001	12 MHz 286 Multi. FD Cont.	95.00

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386	286	XT 12MHz
• 80386 CPU 1M RAM • 1.2 Drive (TEAC) • Monochrome Graphics Card • FD/HDD Controller • 101 Keyboard • 12″ Amber Monitor 25 MHz. . . . $1395 25 MHz 32K Cache . . . $1695	• 12 MHz 80286 CPU • 512K RAM • 1.2 M Floppy Drive • FD/HD Controller • 101 Keyboard • 12″ Amber Monitor $649	• 360 Drive (TEAC) • 101 Keyboard • Monochrome Card • Amber 12″ Monitor Complete $369

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Bravo 286 . . . . . $829 286-12 . . . . . 1149 386C . . . . . 2549 386-25 MHz, 1MB . . . . . 3449 386-33 MHz, 2MB 3979	5200-40/100 . . . . . $4579/4899 5100-40/100 . . . . . 3699/4399 3200/3200SX . . . . . 3179/3749 3100e . . . . . 2469 1600 20/40MB . . . . . 2979/3319 1200HB . . . . . Call 1200FB 1365 1000 615	PSII 30 + 20/40MB . . $1495/1695 PSII 50Z + 30/60MB . . 2150/2375 PSII 80 + 44/70MB . . . 3895/4696 PSII Keyboards . . . . . 175 Color Display 8512/8513 . . 439/539 Call for other models

AST 286 20MB HD
512K RAM, 1.2 M Floppy, 101 Keyboard, Amber Monitor, DOS, Clock, Serial, Parallel Complete System
$1495

PERFECT CHRISTMAS GIFTS!

Diskettes	4″/12″	Power Supervisor	39″
Computer Cover	7″	DOS 4.2	49″
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Computer Stand	14″	Mouse	49″
Glare Filter	44″	Pocket Modem	69″
Joy Stick	18″	Hand Scanner	149″
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Super Key S/W	20″	& More	

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Los Angeles, CA 90036

Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Warranties, return policy, service, training, and support

IET COMPUTERS

Store Manager: Keith K. Lee
Address: 2548 S. Fairview St.
City: Santa Ana Zip: 92704
Phone: (714)668-0536
Specialties:
Sales
Service
Upgrade
Operating systems supported:
DOS
Best-selling product lines:
386
286
XT PC
In-house experts:
Keith K. Lee
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Warranties, support

IIT COMPUTER

Store Manager: Johnny Nguyen
Address: 16540 Harber #G
City: Fountain Valley Zip: 92708
Phone: (714)775-8126
Operating systems supported:
DOS
Best-selling product lines:
AT 386-20 MHz
AT 286-12 MHz
XT System
In-house experts:
Johnny Nguyen
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Services, support

JADE COMPUTER

Store Manager: Art Matisoff
Address: 3400 Bristol St.
City: Costa Mesa Zip: 92704
Phone: (714)549-7108
Specialties:
Word Processing
Engineering/CAD
Desktop Publishing
Operating systems supported:
DOS
CP/M
UNIX/XENIX
Best-selling product lines:
Jade Computer
Epson
Panasonic
In-house experts:
Contact the local store
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Full service and support. Satisfaction guaranteed or your money back. We've been an industry leader for 15 years.

LINNEX COMPUTERS, INC.

Store Manager: Charlie Lin
Address: 1701 E. Edinger Ave. #C-3
City: Santa Ana Zip: 92705
Phone: (714)558-3399
Specialties:
Desktop Publishing
LANs
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
LCI
Everex
Epson/C-Itoh
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support, warranties, return policy

LOW-TECH COMPUTER SYSTEMS

Store Manager: A. Fedan
Address: 28731 Via Coronado
City: Mission Viejo Zip: 92692
Phone: (714)364-9000
Specialties:
LANs
Small Business
Operating systems supported:
DOS
CP/M
OS/2
TOS
UNIX/XENIX
Best-selling product lines:
AST
ACR
DTK
In-house experts:
A. Fedan
Mike Carter
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support, service

MACSURGEON

Store Manager: Richard Jobst
Address: 8001 Irvine Center Dr.
City: Irvine Zip: 92718
Phone: (714)727-3591
Other store locations: La Jolla, CA
Specialties:
Desktop Publishing
LANs/WANs
Communications
Operating systems supported:
MacOS
UNIX/XENIX
Best-selling product lines:
Apple
Tops
Sun Microsystems
In-house experts:
Richard Jobst
Ruben Ortega
George Meyer
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free delivery, repair/upgrade, consulting, on-site service contracts, customization of hardware and software, systems integration

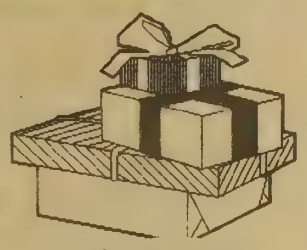
MAY COMPUTER PRODUCTS

Store Manager: Chris Adams
Address: 8220 Katella Ave. #E
City: Stanton Zip: 90680
Phone: (714)897-2160
Specialties:
Business Computers
Personal Computers
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Info 286-12 MHz
May 386-20 MHz
Info 286-20 MHz
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Same-day RMA turnaround, 1-yr warranty, tech support

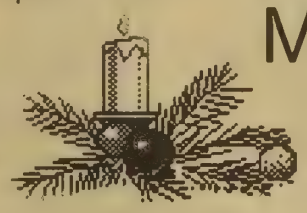
THE Portfolio™ IS HERE !

Imagine as easily as reaching into your pocket for your wallet, you could be pulling out a computer instead! The ATARI PORTFOLIO™ weighs less than a pound, is MS-DOS compatible, has a built in spreadsheet, text editor, address book, appointment calendar, and of course a calculator. A real QWERTY keyboard, and a low price of only **$399.95**, complete this exciting palmtop package.

IN STOCK!

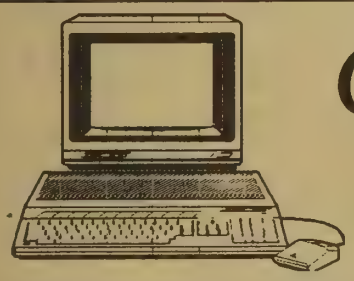


MIGRAPH HAND SCANNER	$479
SPECTRE GCR	$299
PC-SPEED	$399
NOTATOR	$519



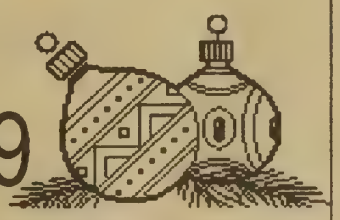
ST SPECIALS

1040 Mono	$749
1040 Color	$949
MEGA2 Mono	$1299
MEGA2 Color	$1499
MEGA4 Mono	$1749
MEGA4 Color	$1849



Christmas Special

Free Package of 10 Disks or Intro to ST Videotape with ST computer purchase.



520 COMPUTER $399

(CPU Only. Price does not include monitor)

30% OFF ALL Hybrid Arts SOFTWARE IN STOCK!

All major credit cards accepted. Financing availible: Prices subject to change without notice.

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OPEN Tuesday - Friday 10AM to 7PM
Saturday 10AM to 6PM
CLOSED Sunday & Monday

MEDCOM INFO. SYSTEMS

Store Manager: Steve Grande
Address: 4175 E. La Palma Ave. #200
City: Anaheim Hills Zip: 92807
Phone: (714)996-9999
Specialties:
Multi-line BBS
Operating systems supported:
DOS
Best-selling product lines:
Galacticom
Stargate
In-house experts:
Thomas Baden
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Large-scale multi-line BBS customization

MEGA-PC TECH CO.

Store Manager: Kent Chen
Address: 3605 W. MacArthur Blvd. #704
City: Santa Ana Zip: 92704
Phone: (714)850-1044
Specialties:
IBM Compatible Computers
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Seagate
Uni
Intel
In-house experts:
Kent Chen
Nelson Lee
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, warranties, guarantees, return policy

MICRO CITY

Store Manager: Steve Tang
Address: 1701 E. Edinger Ave. #D
City: Santa Ana Zip: 92705
Phone: (714)543-4922
Other store locations: 17351 E. Galfe Ave., City of Industry
Specialties:
Computer Systems
Sales and Service
LANs
Operating systems supported:
DOS
OS/2
Best-selling product lines:
GST Computer System
AST
ATI-VGA Wonder
In-house experts:
Joseph
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
All systems include 1-yr parts and labor warranty

MONARCH MICRO

Store Manager: Joey Weinman
Address: 708 North Valley St., Suite P
City: Anaheim Zip: 92801-3838
Phone: (714)758-1222
Specialties:
Desktop Publishing
LANs
Service Contracts
Operating systems supported:
DOS
AmigaDOS
OS/2
MacOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Monarch
AST
Toshiba
In-house experts:
Jeff Miller
Bob New
Joey Weinman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, service contracts, training, 1-yr repair warranties, 2-yr purchase warranties

OSTECH

Store Manager: Frank Goodyear
Address: 2414 S. Fairview, Suite 201
City: Santa Ana Zip: 92704
Phone: (714)662-2410
Specialties:
Novell LANs
SBT Software
Security Software
Operating systems supported:
DOS
OS/2
TOS
Best-selling product lines:
Novell
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, maintenance

PC STAR CORP.

Store Manager: David Shaw
Address: 207 E. Orangethorpe Ave
City: Fullerton Zip: 92632
Phone: (714)525-9131
Specialties:
Network/LANs
CAD/CAM
Desktop Publishing
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Epson computers and printers
Relisys monitors
80 DATA computers and parts
In-house experts:
David Shaw
Alex Yen
Ron Hsu
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free delivery services, telephone tech support, systems upgrade and repairs, one-year parts and 6-months labor system standard warranty, (extended warranty available), network file services system available, network workstations available, quick RMA services, free estimates

PCR PERSONAL COMPUTER RENTALS

Address: 7372 Prince Dr.
City: Huntington Beach Zip: 92647
Phone: (714)843-9262
Other store locations: LAX, Studio City, Riverside, Carlsbad, San Diego
Specialties:
Computer Rentals
Big Monitors
CAD Systems and LANs
Operating systems supported:
DOS
OS/2
MacO
UNIX/XENIX
Best-selling product lines:
IBM
Compaq
Macintosh
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Setup, delivery, installation

PERSONAL COMPUTER CENTRE

Store Manager: Rajiv Shah
Address: 28181 Marguerite Pkwy
City: Mission Viejo Zip: 92692
Phone: (714)364-9404; FAX (714)364-6382
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard

PERSONAL COMPUTER CENTRE

Store Manager: Daniel Garza
Address: 1451 Edinger Ave. #D
City: Tustin Zip: 92680
Phone: (714)259-1481; FAX (714)259-8438
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard

THE PRINTER CONNECTION

Store Manager: Mark Karatas
Address: 1831 W. Lincoln Ave.
City: Anaheim Zip: 92801
Phone: (714)758-8832
Specialties:
LANs
Micro Computers
Printers
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
AST
Everex
NEC
In-house experts:
Mark Karatas
Puzant Ozbag
Gary Parlato
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Printer repair, extended warranties

PROFESSIONAL LOCAL AREA NETWORKS

Store Manager: David Wilson
Address: 681 S. Tustin, Suite 182
City: Orange Zip: 92666
Phone: (714)771-5905
Specialties:
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Banyan
Novell
In-house experts:
Michael A. Williams
David A. Wilson
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, warranties, 24-hour response with a service contract

SIMTEC COMPUTER RENTALS

Store Manager: Darlene Field
Address: 5122 Bolsa Ave. #108
City: Huntington Beach Zip: 92649
Phone: (714)897-7922
Other store locations: Atlanta, Chicago, Detroit, Orlando
Best-selling product lines:
IBM
Compaq
Apple
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support

SOFTBYTE

Store Manager: Dick Braun
Address: 44 Goldenbush St.
City: Irvine Zip: 92714
Phone: (714)857-8432
Specialties:
Novell LANs
Real Estate Software
Custom Programming
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Mitsuba
NEC
Hewlett-Packard
In-house experts:
Darrell Goodwin
Dick Braun
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, service contracts, custom s.w. applications

STERLING SYSTEMS, INC.

Store Manager: Brent Blackwelder
Address: 27122B Paseo Espada, Ste. 1004
City: San Juan Capistrano Zip: 92675
Phone: (714)661-6120
Other store locations: Salt Lake, UT
Specialties:
LANs
Accounting
High-Speed Image Scanning
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Everex
Toshiba
Techknowlogy
In-house experts:
Dave
Brent
Kent
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service/support on all Everex products and most IBM compatibles

SUN COMPUTERS, INC.

Store Manager: Craig Deutsch
Address: 16241 Beach Blvd.
City: Huntington Beach Zip: 92647

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T1000 $619

- The smallest, lightest portable PC - just 6.4 pounds
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- Portable PC power at a very affordable price!

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- Exceptional light and compact

T1600 $3,095

- Toshiba's most powerful battery-powered PC
- Desktop capabilities in a go-anywhere computer
- Runs on a internal, removable, rechargable battery pack
- Detachable backlit supertwist EGA LCD display

T3200SX $3,895

- The power to expand into the future
- Expansion is easy with six internal slots, including two IBM-compatible slots

NEC

PowerMate 386 SX Plus

- 16MHz, 2MB RAM, 1.2M FDD
- HDD/FDD controller
- VGA on board
- NEC 40MB hard drive
- Mouse port on front panel
- Microsoft Window 386
- Microsoft DOS w/ GW Basic

$2345

NEC MultiSync 2A monitor . . . $495

PowerMate 286 Plus

- 12MHz, 2MB RAM, 1.2M FDD
- HDD/FDD controller
- VGA on board
- NEC 40MB hard drive
- Microsoft DOS 3.3 w/ GW Basic

$1750

NEC MultiSync 3D monitor . . . $625

ARCHE

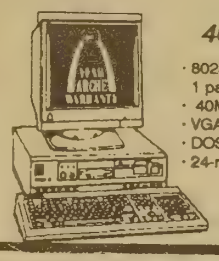
QUALITY ABOVE ALL

$875

TRIUMPH 286

BASIC SYSTEM

- 80286 12MHz, 512K, 2 serial & 1 parallel port
- DOS 3.3 w/ GW Basic
- 24-month warranty



$2050

RIVAL 286

40MB VGA SYSTEM

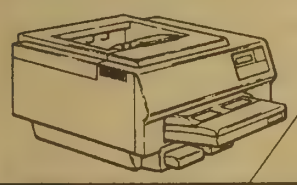
- 80286 12MHz, 640K, 2 serial & 1 parallel port
- 40MB 28ms HDD
- VGA CARD & MONITOR
- DOS 3.3 w/ GW Basic
- 24-month warranty

HEWLETT PACKARD

Authorized Dealer

LaserJet IIP
with toner
$995

LaserJet II
with toner
$1,595



MEMORY MODULE

LaserJet II	1MB	$395
LaserJet II	2MB	$750
LaserJet IIP	1MB	$395
LaserJet IIP	2MB	$675

FONT CARTRIDGE

HP Great Start Font	$ 75.00
HP Tax Font	$175.00

DeskJet +
$650

EPSON

Best Buy !!

Equity LT
- 2FDD, 640K

$$$965
** 100 rebate

LQ-1050
- 24-pin, 264 CPS

$$$725

LQ-510
- 24-pin, 192 CPS

$$$335

LQ-850
- 24-pin, 264 CPS

$$$525

CITIZEN

MSP-40
- 9-pin, 240 CPS

$$$229

MSP-45
- 9-pin, 240 CPS

$$$299

MSP-50
- 9-pin, 300 CPS

$$$245

MSP-55
- 9-pin, 300 CPS

$$$345

New!

GSX-140
- 24-pin, 192 CPS

$$$315

* Color kit for GSX-140 $65.00

120D
- 9-pin, 120 CPS

$$$135

180D
- 9-pin, 180 CPS

$$$150

$$$ SAVE $$$

Z-NIX MOUSE $45.00	15% OFF ON ENTIRE STOCK OF COMPUTER BOOKS !
MOUSE PAD $7.00	JOYSTICK $15.00
GRIPCLIP COPY HOLDER $7.00	MOUSE POCKET $5.00
UNIVERSAL PRINTER STAND (PS-85) $9.50	

LOGITECH

C7 serial mouse . . . $65

Series 9 serial mouse . . . $89

Panasonic

Office Automation OA

KX-P1180
- 192 CPS (draft), 38 CPS (NLQ)
- 9-pin, 80 column

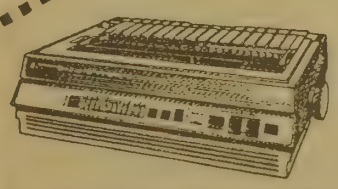
$$$179

KX-P1191
- 240 CPS (draft), 48 CPS (NLQ)
- 9-pin, 80 column

$$$219

PC MAGAZINE EDITORS CHOICE

New!



KX-P1124
- 192 CPS (draft), 63 CPS (NLQ)
- 24-pin, 80 column

$$$305

KX-P4450
(LASER PRINTER)
- 11 page per minute
- 512K

$$$1,395

Holiday Special !!!

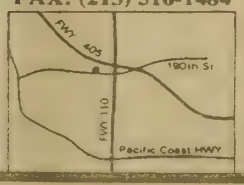
WIN THE ARCHE TRIUMPH 286 PC
$1,395 VALUE
(NO PURCHASE NECESSARY)

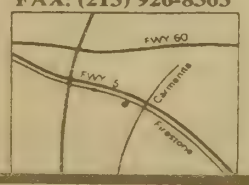
PC WAREHOUSE

Show Room 20,000 sq. ft.
1355 W. 190th St.
Gardena, CA 90248
TEL: (213) 516-2098
FAX: (213) 516-1484

Show Room 5,200 sq. ft.
13340 E. Firestone Blvd., #E
Santa Fe Springs, CA 90670
TEL: (213) 926-7363
FAX: (213) 926-8363

VISA





Phone: (714)848-5574
Specialties:
Desktop
LANs
CAD
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Apple
Hewlett-Packard
AST
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support networking, service, training

SUN COMPUTERS, INC.

Store Manager: Mike Hamilton
Address: 23710 El Toro Rd.
City: El Toro Zip: 92630
Phone: (714)859-1818
Specialties:
Desktop
LANs
CAD
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Apple
Hewlett-Packard
AST
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support, networking, service, training

SUNLAND MICRO

Store Manager: Don Comstock
Address: 22951 La Cadena
City: Laguna Hills Zip: 92653
Phone: (714)380-1958
Specialties:
Wholesale only
Best-selling product lines:
PS/2 MD 30, 70, & 80
Compaq 386
AST 386
In-house experts:
Don Comstock
Joe Meehan
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Five-year warranties on all specialty memory upgrades

TRANS INTERNATIONAL

Store Manager: Sid Raza
Address: 2120 Howell Ave.
City: Anaheim Zip: 92806
Phone: (714)634-1583
Specialties:
Desktop
Best-selling product lines:
Seagate
Toshiba
In-house experts:
Mike Khan
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Peripherals, memories, computer repairs, 1 year parts and labor, 30-day return policy

TRI-NATIONAL COMPUTER

Store Manager: Michael Dinh
Address: 13075 Springdale St.
City: Westminster Zip: 92683
Phone: (714)893-1888
Specialties:
Customized Software
Business Applications
System Configuration
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
AMI
Orchid
Packard Bell
In-house experts:
Dominic La
Harrison Nguyen
Michael Dinh
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Full support and service, satisfaction guarantee, training

VICTORY SYSTEMS, INC.

Store Manager: Phil Bonnice
Address: 23016 Del Lago Dr., Ste. D
City: Laguna Hills Zip: 92653
Phone: (714)583-9272
Specialties:
CAD/CAM
LANs
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
AutoCAD (s/w)
LandCADD (s/w)
Victory CAD Station
In-house experts:
Mike Shoulders
Scott Dennison
Glenn Bertoncini
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Complete system consultation, integration and support (for 1 yr), AutoCAD/VersaCAD/LandCADD training, extended warranties and equipment service available

VISION 21 SYSTEMS

Store Manager: David L. Keeler
Address: 16945 Bushard St.
City: Fountain Valley Zip: 92708
Phone: (714)963-1090/963-2703
Specialties:
Real Estate/Mortgage
LANs
286 and 386 laptops
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Dauphin LapPRO-286 (laptop)
Vision 21 Systems 286
Vision 21 / CEI 386-25 MHz
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts & labor limited warranty, free customer support, 30-day money-back satisfaction guarantee, upgrade trade-in @ 85% current value during first year for system purchasers

WILKINSON MICRO

Store Manager: Allen Wilkinson
Address: 17801-B Sky Park Cir.
City: Irvine Zip: 92714
Phone: (714)724-1230
Operating systems supported:
DOS
CP/M
Best-selling product lines:
Our own brand clone
AST
Toshiba
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Repair, consulting

WUZTEK

Store Manager: Paul Wu
Address: 2202 Ventia
City: Tustin Zip: 92680
Phone: (714)544-7888; FAX (714)838-5531
Other store locations: 4521 Campus Dr., Suite 400, Irvine, CA 92715
Specialties:
Accounting
CAD (2D &3D)
Desktop Publishing
Operating systems supported:
DOS
MacOS
TOS
Best-selling product lines:
Seagate
Tatung
Panasonic
In-house experts:
Paul Wu
Mark Alarmares
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free delivery and setup within 30 miles radius, free training on selected systems, one-yr warranty on most products sold

San Gabriel Valley

ADVANCED PC PRODUCTS

Store Manager: Thomas Liv
Address: 5220 N. Rosemead
City: San Gabriel Zip: 91776
Phone: (818)285-7560
Specialties:
Networking
Communications
Accounting
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Novell
Accountmate
In-house experts:
Daniel Chen
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, warranties, guarantees, return policy

ALPHANUMERIC INTERNATIONAL

Store Manager: Bicky Singh
Address: 13360 Firestone #F
City: Santa Fe Springs Zip: 90670
Phone: (213)921-8689
Specialties:
Networking
CAD
Accounting
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Hewlett-Packard
NEC
Toshiba
In-house experts:
Randy Wang
Nilesh Desai
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
System integration, application training, tech support

ATLANTIC COMPUTER

Store Manager: David Yuan
Address: 800 Monterey Pass Rd.
City: Monterey Park Zip: 91754
Phone: (213)267-1638
Other store locations: 15705 Strather, Ste. #4, Van Nuys, CA 91406
Specialties:
Networking
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Panasonic
Goldstar
DTC
In-house experts:
David Yuan
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Three-day maximum turnaround on repair, specialized service, 50% of personnel have engineering backgrounds

ATRONIC

Store Manager: Henry Chung
Address: 15703 E. Valley Blvd.
City: Industry Zip: 91744
Phone: (818)333-0193
Other store locations: 7150 Beverly Blvd., Los Angeles; 300 S. Garfield #101, Monterey Park
Specialties:
Networking
Operating systems supported:
DOS
Best-selling product lines:
Miniscribe
ATC
In-house experts:
Bea Lo
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, warranties, guarantees, return policy

COMPEL CORPORATION

Store Manager: Tom Cylkowski
Address: 10410 Pioneer Blvd.
City: Santa Fe Springs Zip: 90670
Phone: (213)946-8321
Other store locations: Phoenix, San Diego, San Francisco
Specialties:
LAN Hardware
LAN Installations
LAN Servicing
Best-selling product lines:
Synoptics
Kinectics
Interlau
In-house experts:
Tom Cylkowski (LAN Design)
Jo Hummel (LAN Service, Installation)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-yr. guarantee LAN installation, LAN basics seminars, post-installation service contracts

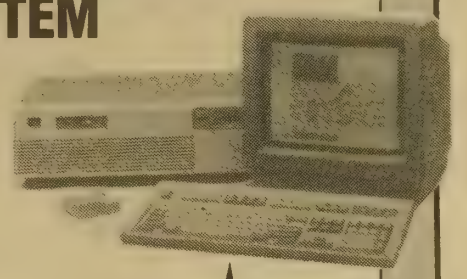
YOU CAN'T BEAT OUR PRICES!!!

TOWER 25 MHz 386 SYSTEM
W/32K CACHE & 66 MB HARD DISK

- Landmark=37.9 SI=31.6
- 1 MB Expandable to 12 MB, Memory Support Up To 16 MB Total With Optional Memory Board
- Austek Cache Controller w/32K Cache RAM
- Socket for 80387 & Weitek Math Co-Processor
- 2x32 Bit, 5x16 Bit, 1x8 Bit Slots
- 1.2 MB Floppy Drive
- 66 MB 23 ms Hard Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 230 Watt P/S Tower Case Holds 6 Drives
- 101-Key Keyboard

$2299

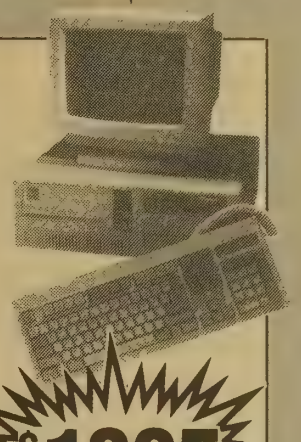
20 MHz 386 SYSTEM
W/66 MB HARD DISK



- Landmark Speed=25 SI=23
- 1 MB Expandable to 8 MB On Board
- 1.2 MB Floppy Drive
- 1:1 Interleave
- 66 MB 23 ms Hard Drive
- 2 Serial, 1 Parallel, 1 Game Port
- 101-Key Keyboard
- 230 Watt Power Supply & Quality Case
- Socket for 80387

$1695

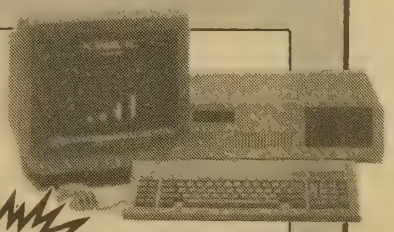
386 SX W/INTEL CHIPSET
W/42 MB HARD DISK



- Landmark=19.6
- 1 MB Expandable to 8 MB On Board
- Socket for 80287
- 6x16 Bit, 2x8 Bit Slots
- 1.2 MB Floppy Drive
- 42 MB 28 ms Hard Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 200 Watt Power Supply & Quality Case
- 101-Key Keyboard

$1395

12 MHz AT SYSTEM



- Landmark Speed=15.9 SI=13.4
- 640K RAM Expandable to 4 MB On Board
- 1.2 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 200 Watt Power Supply & Quality Case
- 101-Key Keyboard
- 16/20 MHz Available

$695

10 MHz TURBO XT

- 256K RAM Expandable to 640 MB On Board
- 360K Floppy Disk
- Floppy Disk Controller
- 165 Watt Power Supply & Quality Case
- 101-Key Keyboard

$340

MONITORS

16″ Super VGA	Call
14″ VGA	$355
14″ EGA	339
14″ Mono	115
12″ IBM Style Green	70

Monitor With Card CALL For The Best Price

HARD DISK DRIVES

ST-225 20 MB	$199
ST-251-0 40 MB	355
ST-251-1 40 MB	399
ST-4096 80 MB	570

FLOPPY DRIVES

1.2 MB (5¼″)	$75
360 KB (5¼″)	64
1.44 MB (3½″)	80
720 MB (3½″)	72

LAPTOP SPECIAL!!

286-12 MHz-40 MB
1.44 MB FDD, 1 MB On Board

$2599

KEYBOARDS & CASES

101-Key Keyboard With Click	$45
Full AT Case	52
Baby AT Case	50
Mini Tower Case	109
Tower Case	CALL
XT/AT Case	50

Case w/Power Supply CALL for the BEST PRICE

MODEMS

2400B PS External	$115
2400B PS Internal	99

ADD ON CARDS

AT I/O 2S/1P/1G	$45
MGP Card	45
EGA CArd	140
VGA 8 Bit	150
VGA 16 Bit	180
MFM 1:1	125
MFM 2:1	110
RLL 1:1	140
RLL 2:1	125
ESDI	CALL

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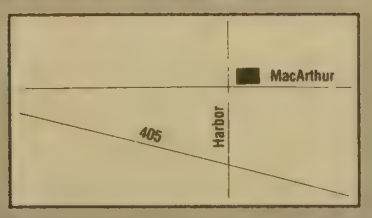
TEL: (714) 850-1044
FAX: (714) 850-0321

3605 W. MacArthur Blvd.
#704, #705
Santa Ana, CA 92704



COMPUTE DATA

Store Manager: Jeff Tran
Address: 9042 E. Las Tunas
City: Temple City Zip: 91780
Phone: (818)309-9277
Specialties:
Networking
Wordprocessing
DTP
Operating systems supported:
DOS
Best-selling product lines:
Compute Data
Panasonic
Goldstar
In-house experts:
Jeff Tran
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Warranties, support

COMPUTER EXPRESS

Store Manager: Steven Su
Address: 357 N. Azusa Ave.
City: West Covina Zip: 91791
Phone: (818)339-8979
Specialties:
Desktop Publishing
LANs
Accounting
Operating systems supported:
DOS
Best-selling product lines:
Hewlett-Packard
PC Craft
NEC
In-house experts:
Gaylord Miller
Steven Su
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty parts and labor

STEPHEN M. EPPLEY, MICROCOMPUTER CONSULTANT

Store Manager: Steve Eppley
Address: 1302 E. Cordova St.
City: Pasadena Zip: 91106
Phone: (818)577-0365
Specialties:
Accounting
Needs Analysis
Custom Programming
Operating systems supported:
DOS
Best-selling product lines:
Paradox 3.0
Clipper
WordPerfect
In-house experts:
Steve Eppley
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, custom software, needs analysis, PC hardware built to needs/specs, multiuser systems for small businesses

GNP COMPUTERS

Store Manager: Roger Barr
Address: 1254 E. Colorado
City: Pasadena Zip: 91106
Phone: (818)577-4252
Specialties:
Novell Networking
Sun UNIX
Communications
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Sun Microsystems
Arche
Epson
In-house experts:
On-site service
Heterogeneous networking

T. F. GOLDEN ENTERPRISES, INC.

Address: 13353 Alondra Blvd. #102
City: Santa Fe Springs Zip: 90670
Phone: (213)404-6682
Specialties:
XT, AT Compatibles
FAX, Scanner
Networking
Operating systems supported:
DOS
Best-selling product lines:
AT System
Guis FAX Products
Seagate
In-house experts:
Frank Shen
Tony Tsai
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts and three-month labor warranties, well-trained tech support

GRAPHIC MOTION

Store Manager: Norm Lee
Address: 14832 E. Whittier Blvd.
City: Whittier Zip: 90605
Phone: (213)945-9612
Specialties:
DTP Graphics
Training
Operating systems supported:
DOS
Best-selling product lines:
Corel Draw
Ventura
Qume
In-house experts:
Norm Lee
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Bundling of graphic package, Corel Draw, Qume printer, scanner, computer

LEGATECH COMPUTERS

Store Manager: Sylvia Ma
Address: 789 S. San Gabriel Blvd. #D
City: San Gabriel Zip: 91776
Phone: (818)309-2941
Specialties:
LANs
Desktop Publishing
General Business Application
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Mitsubishi
Panasonic
Orchid
In-house experts:
Please call
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free tele support, one-year limited warranty, mail order available

MID-CITIES COMP/SOFT

Store Manager: Jane Hughes
Address: 2406 Flower St.
City: Bellflower Zip: 90706
Phone: (213)867-8994
Specialties:
Desktop Publishing
Music
Business
Operating systems supported:
DOS
TOS
Best-selling product lines:
Atari
Mitsuba
In-house experts:
Mark Peterson
Darin Ferraro
Al & Jane Hughes

PACE COMPUTERS, INC.

Store Manager: Glenn T. Crawford
Address: 266 Peachtree St.
City: City of Commerce Zip: 90040-4015
Phone: (213)721-6200
Specialties:
LANs
DTP
Accounting
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Everex
Wyse
AST
In-house experts:
Tim Prince (LANs)
Tristan Carey (DTP)
Glenn Crawford (Acct.)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site service, tele support, all manufacturers' warranties

PANTEX COMPUTER, INC.

Store Manager: Lili Chen
Address: 11546 E. Washington Blvd., Ste. A & B
City: Whittier Zip: 90606
Phone: (213)699-3333
Other store locations: 8730 West Park Dr., Houston, TX 77063
Specialties:
Hardware for LANs
CADD
Compatible Machines
Operating systems supported:
DOS
ProDOS
UNIX/XENIX
Best-selling product lines:
PSC Case
PCI Board Level Product
BTC Keyboard
In-house experts:
Charlie Ma
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support, warranties, return policy

PC PLUS CORP.

Store Manager: Stephen Nu
Address: 710 E. Garvey Ave.
City: Monterey Park Zip: 91754
Phone: (818)571-6955
Other store locations: Rowland Heights, Buena Park
Specialties:
LANs
Accounting
Spreadsheets
Operating systems supported:
DOS
OS/2
TOS
UNIX/XENIX
Best-selling product lines:
Everex
AST
Tandon
In-house experts:
Stephen Nu
Rich Tang
Erik Fuentes
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, one-year warranty on all hardware products

PC SYSTEMS DESIGN

Store Manager: Jessica Louie
Address: 230 S. Lake Ave.
City: Pasadena Zip: 91101
Phone: (818)792-1391
Other store locations: 2860 E. Imperial Hwy., Brea; 18009 Sky Park Circle, Irvine
Specialties:
Networking
Desktop Publishing
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Epson
Hewlett-Packard
Zenith
In-house experts:
Wilson Liu
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
AST, Toshiba authorized service center, training, warranties

PERSONAL COMPUTER CENTRE

Store Manager: Dave Packer
Address: 3660 Foothill Blvd.
City: Pasadena Zip: 91101
Phone: (818)440-0500; FAX (818)440-0436
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard

PERSONAL CONSULTANTS

Store Manager: Roula Korban
Address: 9533 Woodman Ave. #5
City: Arleta Zip: 91331
Phone: (818)895-2208
Specialties:
LANs
Word Processing
Communication
Operating systems supported:
DOS
Best-selling product lines:
DTK Computers
Novell Network
Lantastic Network
In-house experts:
Nick Korban
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site training, installation, warranty up to 18 months

PG COMPUTERS

Store Manager: Gi Pham
Address: 19261-A E. Colina Rd.
City: Rowland Heights Zip: 91748
Phone: (818)913-1159
Specialties:
Networking
Desktop Publishing
Accounting

synerdyne communications

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An Envirodyne Company

COMPLETE SYSTEM STORE

*CAD- (FirstCad, Design Cad, etc.)

*LAN- (Novell, Ready Net, CableLess Net, etc.)

*Business / Accounting

Systems starting at $699

Our prices include:

- Hardware
- Software
- Installation and Support
- Training
- Testing and Burn-In
- Set-up and Start-up
- On site Service (90 days)

FREE CONSULTATION

Call our friendly systems engineer for a quote or information.

8447 Canoga Avenue
Canoga Park, CA 91304

Store hours:
Mon-Fri 10-6

Phone 818-998-4831
FAX 818-341-3823

Prices subject to change without notice

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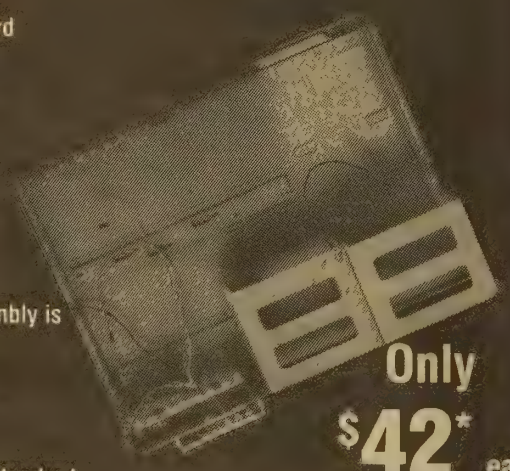

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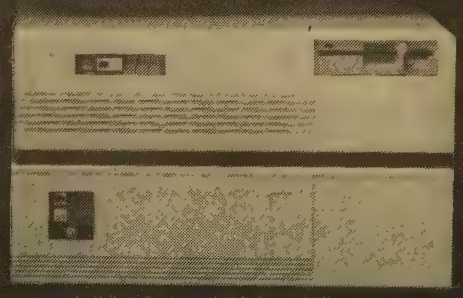

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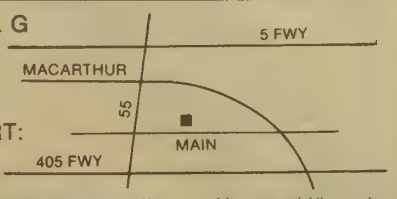

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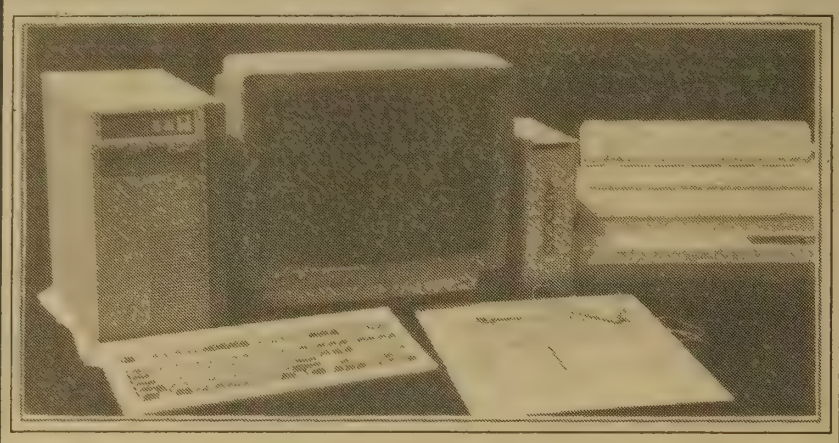

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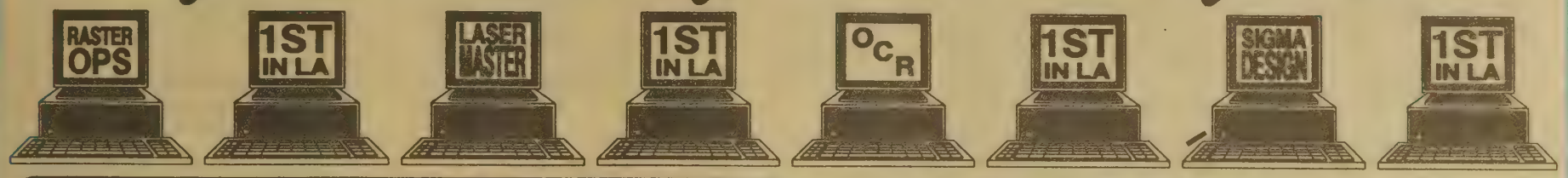

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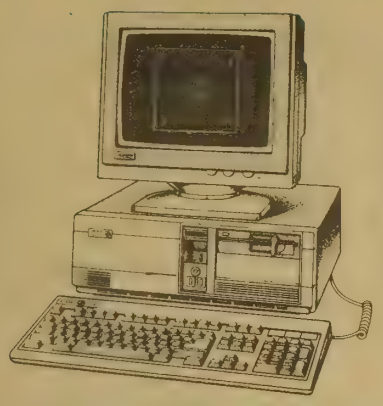

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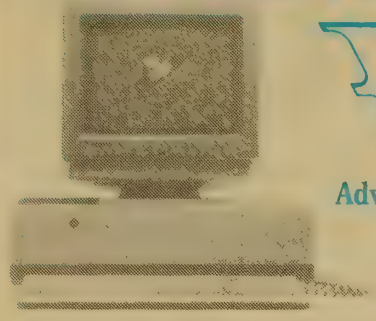

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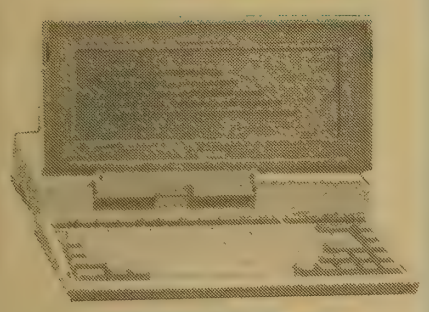

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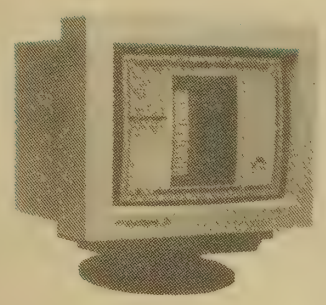

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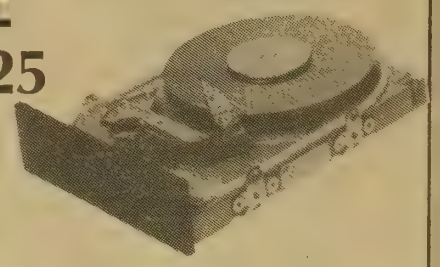

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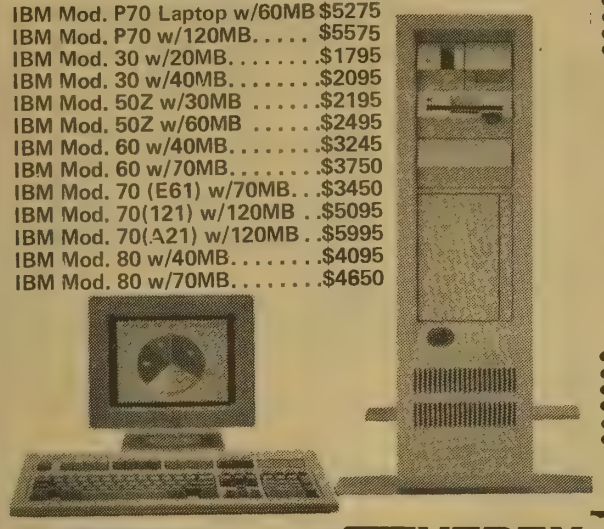

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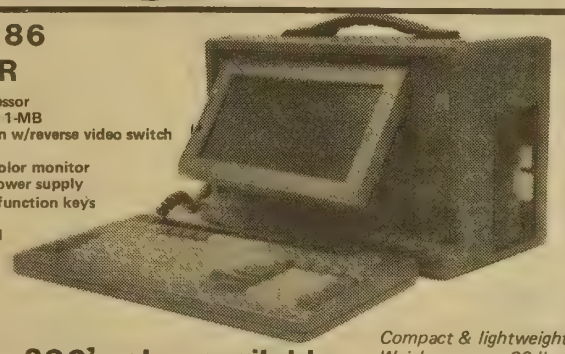

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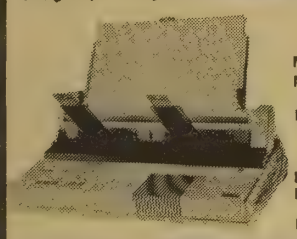

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LQ-1050 – 24-pin, 132 col . . $769

HEWLETT PACKARD

H-P ScanJet Plus w/IF $1495
H-P LaserJet Ver.II $1625
H-P LaserJet 2D. $2660
H-P DeskJet Classic, 2ppm. . . .$549
H-P DeskJet Plus, 4ppm $669

Seikosha

Seikosha – 300cps, 132 column, with color option. . . . $Too low

FORTIS

Fortis DX-21 – 22cps Daisywheel printer, 1 year warranty . . .$349
Fortis DX-41 – 40cps Daisywheel printer, 1 year warranty . . .$589
Fortis DM-1310 Printer, 130cps, 80 column. $225
Fortis DM-2010T Printer, 200cps, 80 column. $325

NEC

2200 –, 24-pin, 180cps, 80 col .$355
5200 – 24-pin, 265cps, 80 col .$565
5300 – 24-pin, 265cps, 132 col .$765

OKIDATA

320 – 300/100cps 80 col . . . $365
321 – 300/100cps, 132 col . . .$479
390 – 270/90cps, 80 col. $479
391 – 270/90cps, 132 col . . . $669
393 – 450/120cps, 132 col . . .$985
393C– above w/color $1075

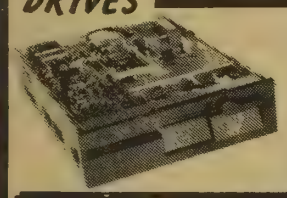
PANASONIC

KX-P1180, 80 col. 192cps. . . . $189
KX-P1191, 80 col, 240cps. . . $249
KX-P3151, daisywheel, 22cps. .$389
KX-P1124, 24-pin, 192cps. . . $325
KX-P1524, 24-pin,192cps $545

TOSHIBA

P311 ExpressWriter, 180. . . . .$379
Toshiba P321-SL– 24-pin $445
Toshiba P341-SL – 24-pin. . . .$585
Toshiba P351SX – 360cps. . . .$965

DRIVES

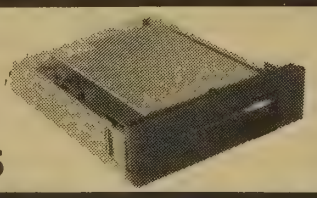


5.25" DRIVES

Teac, Fujitsu, Toshiba

360K 1.2MB

$65 $75

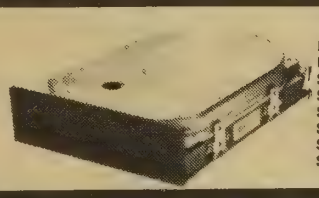


3.5" DRIVES

Teac, Sony, Fujitsu, Toshiba

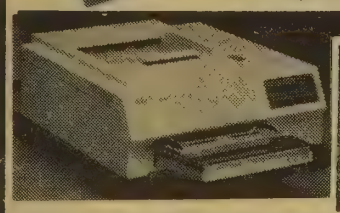
720K 1.44MB

$65 $75



HARD DISK SALE!

Mitsubishi MR535, 40/65MB, 28ms . .$399
Micropolis 1335, 70MB, 28ms. $599
Seagate 225, 20MB w/o controller . . .$209
Seagate 225, 20MB w/controller $249
Seagate 238, 30MB w/controller $275
Seagate 252-1, 40MB, 28ms $349
Seagate 4096, 80MB, 28ms $585
Seagate 296, 80MB, 28ms, half height, w/controller $525



Laser Printers

H-P Laserjet, Ver. IIP . . .$999
H-P Laserjet Ver. II . . . $1,599
H-P Laserjet 2D. $2,660
Brother HL-8e. $1,755
Brother HL-ePS. $2,995
Fortis DP600s Laser, . $1,335
Fortis DP-800, 2MB . . $1,495
Panasonic KX-P4450, . $1,329
Fujitsu RX7100 . . . . . $1,295
Ricoh PC Laser 6000. . $1,100

Modem Sale!

Everex 1200 internal $85
Everex 2400 internal $159
Everex 2400 external. $189
Hayes 1200 external $275
Hayes 1200B internal w/Scom $275
Hayes 2400 external $415
Hayes 2400B internal w/Scom $415
Digitan Hi-IQ 2400B Internal . $99
Smart One 1200B Internal. . . $69
Smart One 2400B Internal. . . .$135
Smart One 2400 External $149
2400B int, for Toshiba laptop .$369

ATI VGA WONDER

PC Magazine Editor's Choice

Super hi-res 1024x768, 16-bit, 256K, expandable to 512K (OEM) . . $209
Above with mouse $249

Hega Auto switch EGA card, 640x 480, auto switch $89

Hi speed Monographic card w/parallel port. $39

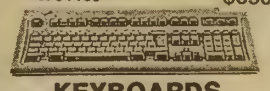
Everex EMS memory card . .$129
Exima VGA card 800x600. . . .$225
Exima VGA card 1024x768. . .$325

Intel Above Board w/512K . . .$425
Clock card $19
Gamer card $15
Floppy controller for 360K, 1.2MB, 720K, 1.44MB drives. $39

Hard Disk for Laptop

Weltec PHD – Portable 20MB hard disk for laptop computers. Complete w/battery pack that runs up to 2 hrs. Just plug into the RS-232 port.

List $1100 $650



KEYBOARDS

Fujitsu 101-key keyboard. Most reliable tested. Case of 6 . . . $42 ea.
101-key keyboard w/track-ball mouse & Dr. Halo III $99

LAP-TOP COMPUTERS

Toshiba T1000, 1 dr, 512K . . $639
Toshiba T1200FB, backlit . . . $1399
Toshiba T1200HB, backlit . . . $1895
Toshiba T1600, 12MHz, 20MB $3095
Toshiba T1600, 12MHz, 40MB $3470
Toshiba T3200, 12MHz, 40MB $3295
Toshiba T5100, 16MHz, 40MB $3950
Toshiba T5200, 20MHz, 40MB $4595
Bondwell 286 w/20MB. $2095
Zenith SuperSport, 20MB. . . .$2975
Zenith SuperSport, 40MB. . . .$3375
Zenith TurboSport, 40MB. . . $4775

MONITORS

Mono Combo 720x348 .$129
RGB Combo . 640x200 .$249
EGA Combo . 640x350 .$459
VGA Combo . 640x480 .$549
NEC 2A, 14" EGA monitor . . .$489
NEC 3D Multisyn Color $595
Relysis RE9513 – 14" VGA . .$379
Sony XPD1320 VGA 720x400.$525
Zenith 1490 14" VGA flat scrn .$675
Goldstar 1210A 12" Amber . . . $79
Goldstar 14" EGA $359
Goldstar 14" VGA $375

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Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, and 90-day warranty, on-site classes, support

CREATIVE COMPUTER CONSULTATIONS

Store Manager: Lawrence J. Sacharoff (owner)
Address: 9800D Topanga Canyon Blvd., Ste. 201
City: Chatsworth Zip: 91311
Phone: (818)999-2957
Specialties:
Office Automation:WP, Spreadsheet, Databases
LANs: IONET
Medical Practice Automation
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
WordPerfect
Hewlett-Packard
In-house experts:
Lawrence J. Sacharoff
Joyce Ann Goldman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site training, tech support, service, one-stop source for all computing needs

D DATA

Store Manager: Mike Dardashi
Address: 6741 Van Nuys Blvd.
City: Van Nuys Zip: 91405
Phone: (818)787-3282
Other store locations: 1779 B Westwood Blvd., Los Angeles, CA 90024
Specialties:
Desktop Publishing
Business Application
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
IBM
Compaq
Hewlett-Packard
In-house experts:
Mike
Ellie K.
Peter C.

DATA TECHNOLOGY

Store Manager: Tom Ho
Address: 632 South Victory Blvd.
City: Burbank Zip: 91502
Phone: (818)569-4929
Specialties:
CAD
LANs
Desktop Publishing
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
ALR, Everex
IBM, AST
Compaq
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, guarantees, satisfaction

DATALOGIC

Store Manager: Geis Elabdia
Address: 14545 Victory Blvd.
City: Van Nuys Zip: 91411
Phone: (818)902-9372
Specialties:
LANs
Desktop Publishing
Accounting
Operating systems supported:
DOS
Best-selling product lines:
AST
Toshiba
Novell
In-house experts:
Geis Elabdia
Rick Shen
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, 100% money-back guarantee (reasonable condition), service

DIGITREND SYSTEMS CORP.

Store Manager: Jeanette Yung
Address: 18850 Parthenia St.
City: Northridge Zip: 91324
Phone: (818)772-0190
Specialties:
Computer Systems (IBM Compatible)
Networks
Engineering Design
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Digitrend
Panasonic
Goldstar
In-house experts: Eugene Yung
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support, 2-3 day turnaround service, 1-yr warranty, consulting, repairs

EGGHEAD DISCOUNT SOFTWARE

Store Manager: Edward Craig
Address: 14651 Ventura Blvd.
City: Sherman Oaks Zip: 91403
Phone: (818)783-6214
Specialties:
Accounting
Databases
Desktop Publishing
Operating systems supported:
DOS
MacOS
ProDOS
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
30-day satisfaction guarantee, product must be returned with receipt

THE ELECTRONIC MUSIC BOX

Store Manager: Peter Brunner
Address: 4219 Lankershim Blvd.
City: N. Hollywood Zip: 91602
Phone: (818)508-9491
Specialties:
Music
Video
Operating systems supported:
DOS
AmigaDOS
OS/2
MacOS
TOS
ProDOS
Best-selling product lines:
Opcode
Dr. T
CMS/ 12 Tones
In-house experts: Peter Brunner
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Consulting, MIDI training, sound design, post production, scoring for film and T.V., 16 MIDI recording studio

ESPANORE, LTD.

Store Manager: Rick
Address: 7270 Bellaire Ave.
City: N. Hollywood Zip: 91605
Phone: (818)765-0526
Specialties:
Ribbons
Diskettes
Computer Accessories
Best-selling product lines:
Color Rite and Aspen Ribbons
Bulk, Maxell Diskettes
Avery Labels
In-house experts:
JoAnn and James (customer service representatives)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
100% warranties on all Bulk diskettes, lifetime guarantees on ribbons, custom labels and forms

GENERAL SOFTWARE

Address: 8606 Wilbur Ave.
City: Northridge Zip: 91324
Phone: (818)349-7758
Specialties:
Accounting
LANs
Toshiba
Operating systems supported:
DOS
Best-selling product lines:
Toshiba
AST
IBM
In-house experts:
Charles Goodding
Nel Hensen
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site service, training, Toshiba warranty

GOODMAN MUSIC

Store Manager: Karl Wirtz
Address: 4227 Lankershim
City: N. Hollywood Zip: 91602
Phone: (818)260-4430
Other store locations: 544 Narusa Blvd., W. Covina; 780 S. La Brea, Los Angeles; 4631 Van Nuys Blvd., Sherman Oaks; 4145 Viking Way, Long Beach
Specialties:
Music
Operating systems supported:
DOS
OS/2
MacOS
TOS
ProDOS
Best-selling product lines:
Dr. T
CMS / 12 Tones
Opcode
In-house experts:
Harry Clay—LA Store
Kenny Smith—W. Covina
Peter Brunner—N. Hollywood
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support

HACKER ELECTRONICS

Store Manager: Tim Laren
Address: 21016 Devonshire
City: Chatsworth Zip: 91311
Phone: (818)882-7980
Specialties:
LANs
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Complete system parts all brands
In-house experts: Tim Laren

HW COMPUTERS

Store Manager: Patrick Olsen
Address: 6840 Hayvenhurst Ave.
City: Van Nuys Zip: 91406
Phone: (818)781-0300
Specialties:
LANs
DTP
CAD
Operating systems supported:
DOS
OS/2
Best-selling product lines:
AST
IBM
Compaq
In-house experts:
Jon Dekeles
Tim Brown
Jim Taylor
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service and support, 30-day "bonus" warranty, liberal return policy

I.D. DISK CO.

Store Manager: Lyle Tartak
Address: 7046 Owensmouth Ave.
City: Canoga Park Zip: 91303
Phone: (818)703-7388/1-800-527-DISK
Specialties:
Duplication
Private Labeling
Custom Printing of Tyvek Sleeves and Labels
Operating systems supported:
DOS
AmigaDOS
OS/2
MacOS
TOS
ProDOS
UNIX/XENIX
Best-selling product lines:
BASF
3M
Polaroid
In-house experts:
Lyle Tartak
Barry Oberman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
100% guaranteed diskettes, 1-day turnaround, no minimums

ICC (INTERNATIONAL COMPUTER CENTER)

Store Manager: David Ardy
Address: 16175 Roscoe Blvd.
City: Sepulveda Zip: 91343
Phone: (818)894-2222
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Zenith
Toshiba
In-house experts:
David Ardy
Jack Sandi
Hamid Ghasemi
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support, warranties

continued on page 126

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SUPER 286e-12 MHz,
1.2 Mg Drive, 640K,
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Options:
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& Card . . . . . Add **135**
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Card and Monitor $695
Options:
20 Mg Hard Disk . . . Add **249**
30 Mg Hard Disk . . . Add **269**
18 Month Warranty on
Hyundai Parts

TOSHIBA

Accessories Available

T1000 . . . . . $629
T1200HB 1845
T1600-40 new 3360
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T3200 SX 3798
T5100-100 4525
T5200-40 4650
T5200-100 4995

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STEP 386-SX . . . . . CALL

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ELS I 4-User . . . . . CALL
ELS II 8-User $995
Advance 286 V2.15 1750
SFT 286 V2.15 2670
386 Netware . . . . . CALL
FULL SET AVAILABLE

AGI Computer, Inc.

286-10 MHz $799
286-12 MHz 1050
386-16SX 1350
386-20 MHz 1785

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Okidata 293 . . . . . $345
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Fortius 2015 250
AST Scanner (Apple) 335
Tape Backup 40 (Apple) 340
Mac 16″ Mono Monitor 285
Mac 20″ Color Monitor 645
65W Power Supply 5
AT Memory Cards 4
5¼″ Drives 9
Others, Cards 3-9
DOS 3.0 5
Sidekick Plus 95
Xtree 29
The Complete Answering Card . 185

MISC. COMPUTERS

286-12 MHz, 1 Mg RAM, 1 Dr.
40 Mg W. KB $995
386-20 MHz, 1 Mg RAM, 1 Dr.
40 Mg W. KB 1599
Add $99 for Tower Case
Zenith XT, 2 Dr. 640 W. Monitor,
DOS, KB 520
XT Turbo 640K, 2 Dr. Monitor,
KB 589

MONITORS

Sony 1320 VGA $429
Sony 1302 Multi/Syc 539
Sony 1304 NEW 619
Gold Star VGA 349
Gold Star EGA 307
Samsung CGA 209
Samsung VGA 329
NEC 3D 585
NEC 2A 479
Seiko VGA 545
Hyundai EGA or VGA 339
Wyse Terminals . . . . . CALL
Everex VGA Monitor 349

PRINTERS

Epson FX810 . . . . . $197
FX1050 475
LQ510 345
LQ850 545
LQ1050 759
LQ2550 959
Citizen HSP500 319
HSP550 435
GSX 140 24 Pin 337
Toshiba P321SL 449
P341SL 639
311/310 Ptbls . . . . . CALL
NEC P2200 329
P5200 499
Panasonic 1191 209
1124 309
1524 535
4455 Laser 1325
Okidata 320/321 . . . . . 349/485
390/391 . . . . . 485/645
HP Lazer S.II 1610
Lazer S.IIP 995
Lazer IID 2685

MITSUBISHI

FREE VIDEO CARD &
EGA MONITOR.
386SX w/2 Mg RAM
w/MS DOS, etc.
$1550

GRAPHIC CARDS

Video 7, VRAM, VGA $379
Fast Write, VGA 245
Paradise VGA + Card 225
VGA + 16 285
Everex EGA 127
VGA 16 275
ATI VGA Wonder 256 275
VGA Wonder 512 335
Basic VGA 256 169
ORCHID Designer 800 169
Prodesigner 256 259
Prodesigner 512 355

HARD DISKS

Others Available

40 Mg-28ms $335
80 Mg 545
100 Mg for AST 775
179 Mg-14ms ESDI 1495
384 Mg-16ms ESDI 1970
410 MG-14ms ESDI 1990
769 Mg-16ms ESDI 3250

LEADING EDGE

D-2 Dr. W. Monitor $679
D-1 Dr. 30 Mg Monitor 859
D2-1.2 Mg Dr. 65 Mg VGA &
Monitor 1695
D3-386 . . . . . from 1385

INTEL

80387-33/25 . . . . . $549/469
80387-20/SX 369/295
80287-10/8 . . . . . 205/199
80C287-A 269

MODEMS

Hayes 2400 Int $259
2400 Ext 415
V-Series 9600 . . . . . CALL
US Robotics HST 620
V-32 930
Everex 2400 Int 149
1200 Int 65
Mitsuba 1200 Ext 89
Digitan 2400 Int 105

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The First Annual MicroTimes Semi-Free-For-All

Writers' Poll

As those of you who've been with us for a while can attest, our writers are a diverse and opinionated lot. They also spend a lot of time ferreting out obscure but wonderful products, not to mention hours and hours working with well-known ones.

So we figured all that knowledge shouldn't go to waste. We asked our contributors for their five favorite hardware and software products available during 1989. In classic diverse and opinionated fashion, they came up with various picks, and various numbers thereof. Some contented themselves with naming a few products; others wrote mini-reviews. Some sent faxes; some sent email; Dvorak, ever one for the dramatic, phoned his list in from Moscow.

While the writers' choices reflect a wide variety of tastes, applications, and machine types, there were some clear favorites. In the PC world, **DESQview**, **WordPerfect** (in various incarnations), **Hewlett-Packard** printers, the **Battlehawks 1942** game from Lucasfilm, Borland's **Turbo C** and **Paradox**, Lotus's **Magellan**, and Microsoft **Word 5.0** all scored high marks. Mac users sang the praises of the **SE/30**, the **IIcx** and the **IIci**, wished the wonderful **NTX LaserWriter II** were cheaper, and generally showed a wide range of taste in the matter of word processors, with **Word 4** leading the pack. Other popular Mac products included Symantec's **SAM** and **SUM** utilities, Microlytics's **GOfer** and Claris's **FileMaker.** The **NeXT** workstation wowed 'em, speed communicators loved those **Telebit 9600 baud modems**, and Amiga users continue to rave about **Deluxe Paint III** and **DigiView.**

So here it is, folks, our first annual compendium of writer recommendations. We hope you find it enjoyable and useful.

—eds.

SUE ALBERT

HARDWARE:
(All products for Amiga)
A-Max
RediSoft
Macintosh emulator for the Amiga—choice without sticker-sting.

Digi-View Gold
NewTek
Simply standard studio equipment for Amiga.

The Super Agnus Chip
Commodore
Improved graphics chip for the Amiga, proving "fatter" can be beautiful.

The Bit Knitter
Cochenille
Knitting machine interface. Stunning! Knit any Amiga graphic image instantly.

All the new professional quality video hardware
Now that we have it, watch our dust!

SOFTWARE:
(All products for Amiga)
Deluxe Paint III
Electronic Arts
The first program mentioned by Amiga users.

Photon Paint 2.0
Microillusions
HAM mode paint package for Amiga. Sheer magic with the rainbow.

Elan Performer
Elan Designs
Gives great user interface to the Amiga.

Icon Magic
Glacier Technologies
Power and good docs for the littlest Amiga images.

SimCity
Maxis
Should be mandatory.

ROBERT D. ATHEY, JR.

SOFTWARE:
(All products for MS-DOS)
Batchmaster Plus
Formulation database

SpinRite
Hard disk utility

ScreenExtender
For *WordStar*

Virus Guard
Virus checker

FluShot
Virus blocker

LENNY BAILES

HARDWARE:
(All products for MS-DOS)
All Chargecard
All Computer Systems
This is a small board which converts all accessible RAM on an 80286 machine into pageable LIM 4.0 memory. It works with conventional and

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"IF WE DON'T HAVE IT, IT DOESN'T EXIST!"

ATARI®

520 ST FM

Color Monitor
Disk Drive, Mouse

$799

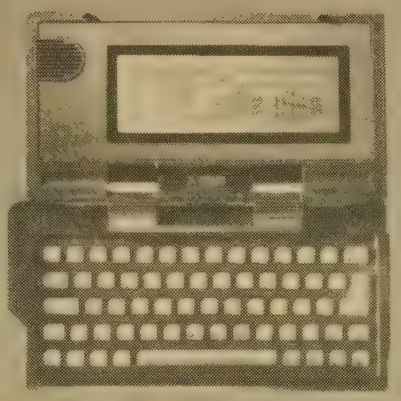
MEMORY UPGRADES

520 ST 1 Meg Upgrade **$269**
520 STFM 1 Meg Upgrade **$199**
Mega 2 ST 4 Meg Upgrade **$299**

PortFolio
with FREE AC Adapter

The PortFolio is the first palmtop computer to accept adopted MS-DOS software. The system includes a Lotus 1-2-3 file-compatible spreadsheet, a basic word processing package, an operating system capable of running adapted MS-DOS 2.11 programs, an appointment calendar with reminder alarms, an address book programmed with automatic phone dialing and a calculator.

Sale **$399.95**



Spectre GCR
Mac Emulator
Now Available
Call for Price!

Blank 3.5
Sony D/S Disks
99¢ Reg $1.50

HARDWARE SPECIALS

Atari Megafile 30 Hard Drive **$499.95**
(with system purchase)
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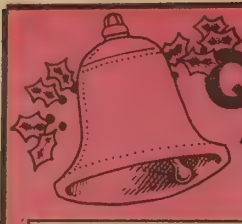

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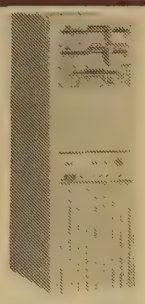

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Keytronics 101 Keyboard
AT case w/200 watt power
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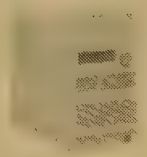

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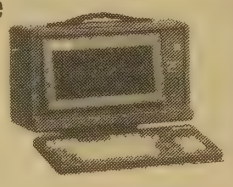

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VGA Video Adapter
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I/O Card
Keytronics 101 Keyboard
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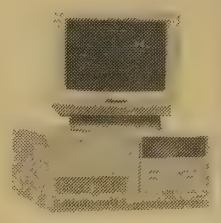

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extended memory on the motherboard and extended memory on add-in expansion cards. It can also allow you to run many applications in an environment that provides 960 K of conventional system memory.

KeyTronic XT-AT 101-Key Keyboard
KeyTronic
This keyboard bears no specific model number, but is sold at most computer swap meets for $50 or less. It has a light, soft touch with springy key action. There are the usual 12 function keys across the top, three LED lights, and 101-key layout including two Alternate and two Control keys.

Toshiba ND356 3 1/2" 1.44 meg floppy drive
Toshiba
This floppy drive is usually sold for under $100. It can be installed as either 720 K or 1.44 Mb (if your system supports 3 1/2" high density drives). It will read and write both disk formats, and comes with a mounting kit for 5 1/4" drive bays. The manual is clearly written, and the drive is easy to install.

SOFTWARE:
(All products for MS-DOS)
DESQview 2.2
Quarterdeck
Nuts like me want to be able to simultaneously upload and download files, be writing an article, and have a DOS window open to test software. *DESQview* is 95% as faithful as the DOS operating system itself, allowing me to do several things at the same time and easily switch back and forth among them.

WordPerfect 4.2
WordPerfect
Now sometimes referred to as "classic" *WordPerfect*, this word processor runs in as little as 200 K of memory and performs many functions slightly faster than the enhanced 5.0 release. It can be run easily on a two-floppy system, and is free of some of the problems 5.0 has in handling very large documents.

DOG (DiskOrganizer) 206
G. Allen Morris
This shareware disk organizer outperforms some of its commercial cousins. It does its work quickly and reliably, and alerts me to any problems on the hard disk before beginning.

Procomm +
DataStorm
Running with *DESQview*, *Procomm* + is dependable and user-transparent. I use it to communicate, upload and download files, and capture online sessions in the foreground or background, without having to think about what I'm doing.

Keyrepet
This little shareware utility speeds up the typematic keyboard rate, and unlike its commercial cousins, appears to be compatible with every program I've ever used. It takes up less than 1 K of memory, and provides enormous psychological relief to a fast typist watching the letters pop up on screen. It has 26 selectable speeds.

JOHN PERRY BARLOW

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Macintosh SE/30
Apple Computer
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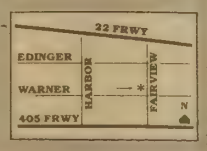

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Word 5.0 (Microsoft)

WordPerfect (WordPerfect)

Magellan (Lotus Development)

Turbo C (Borland)

Battlehawks 1942 (Lucasfilm)

Excel (Microsoft)

NetWare (Novell)

they're due for the SE/30. Nevertheless, there's simply nothing wrong with it but the price. (Oh, I suppose it could still be faster...) There's nothing revolutionary about it either, but it is highly evolved. I especially like the Quantum 80 Mb internal hard drive. This disk is so fast that *Disktimer II* claims it has an access time of 0 deciseconds.

Avatex 2400 baud modem
Avatex
This mail order modem is a great deal. Available in catalogues for as little as $170, it is as fast and as reliable as a Hayes 2400.

Radius Full Page Display (with Radius SE/30 interface)
Radius
The SE/30 is definitely the way to drive a Full Page Display. Even full-size documents scroll almost as rapidly as they would on a text-based machine.

LaserWriter II NTX
Apple Computer
If you can figure out how to afford one, you'll never regret the expense.

GCC WriteMove Printer
General Computer
This thing is about the size of a Danielle Steel hardbound, makes no noise at all, uses outline fonts, and, with an SE/30, is faster than an ImageWriter. The only drawback is one it shares with its cousin, the Personal Laser Printer: it uses the Mac processor to create its page images. Therefore, if your Macintosh doesn't have a hot chip and a lot of memory, printing will seem like Purgatory.

SOFTWARE:
(all for Macintosh)
QuickDEX
Green, Inc.
This free-form database DA works like a Cuisinart on Dexedrine. I have over 1,000 names, addresses, and phone numbers in my *QuickDEX* file. I can type a few letters of a name (or address, or city) and have it onscreen before my return key is all the the way back up. Hit another key and it dials the number. Most folks probably use *QuickDEX* as I do, as an instantaneous Rolodex analog and phone dialer. However, you can store in it any text you like. And it makes using *HyperCard* for addresses feel like using the Queen Mary to pull water skiers.

MacMoney 3.02
Survivor Software
Another great little program by another great little company. It is so powerful that it would meet all but the payroll requirements of most small businesses, and it's so easy that it even renders accounting intuitive.

Word 4.0
Microsoft
There's no such thing as a good word processor, but in this terribly imperfect world, *Word* still seems better than the rest of them. Or is it just the Devil I Know? (Actually, if I trusted *FullWrite Professional*...)

Smartcom II 3.0
Hayes
Powerful and easy. It may lack capabilities which one might find in *MicroPhone II* or *Red Ryder*, but they apparently aren't anything I need in my fairly extensive modeming. Its little animated telephone is awfully cute, but I don't know whether I mean that as criticism or praise.

SoftPC 1.21
Insignia Solutions
Seeing Lotus *1-2-3* form a graph on my Mac screen gives me a perverse thrill. Sort of like watching animals of different species have sex. Nevertheless, there is a practical reason for it.

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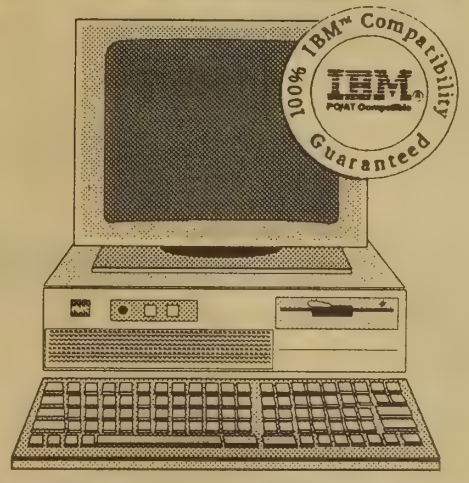

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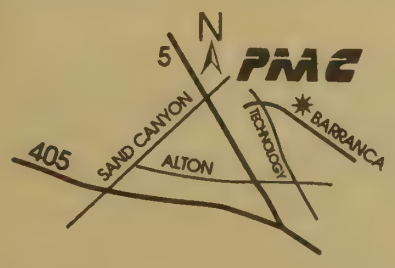

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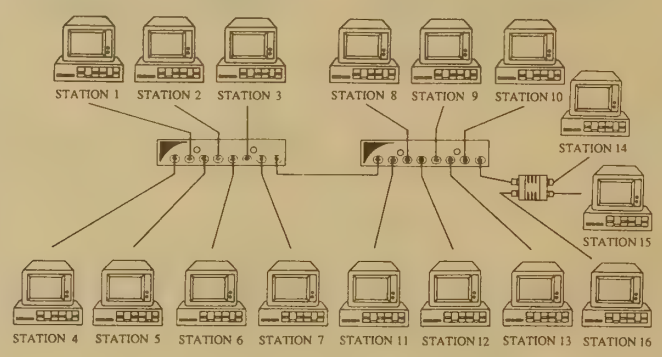

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SERVICE & REPAIR

Many of my friends and favorite nonprofits still stagger through the darkness of DOS. I didn't want to keep a clone around just so I could help them up the Eiger-like learning curve imposed by their false economy, so I use *SoftPC*. It's slow, running on my SE/30 at about the speed of a 4.77 MHz PC-XT. But it works very reliably and does so without any hardware. Also, Insignia has the most alert, enthusiastic, and knowledgeable support personnel I've ever encountered. Even though I was initially running *SoftPC* on an unrecommmended machine (an accelerated Plus), they attacked my every problem as though they were killing snakes.

ROB BEAUCHAMP

HARDWARE:
Pocket Modem
Migent

SOFTWARE:
PageMaker 3.0 (Macintosh)
Aldus

Word 5.0 (PC)
Microsoft

Illustrator '88 (Macintosh)
Adobe

Battlehawks 1942 (PC)
Lucasfilm

Zak McKraken (PC)
Lucasfilm

JOHN COWAN

SOFTWARE:
(All for PC)
Brief v. 3.0
Solution Systems
The programmer's friend. A very fast, powerful, customizable programming editor, distinguished by its multiple file handling and comprehensive undo features.

XyWrite III Plus
XyQuest
The fastest full-featured word processor on the block.

Magellan v. 1.0
Lotus Development
Salvation for anyone who must locate, organize, and gain quick access to data in numerous program formats.

Sourcer v. 1.72
V Communications
A fast machine language disassembler for the Intel 808X architecture, with a comfortable program interface and fully usable output files.

Turbo C v. 2.0
Borland International

JOHN D. DVORAK

HARDWARE:
Telebit T-1000 9600 baud modem
Telebit

Everex 33 MHz 386
Everex

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As Told To MicroTimes

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-Scott Mc Nealy,
President, Chairman and CEO,
Sun Microsystems.
MicroTimes, Mid-December, 1988

Our January 1990 issue features our annual MicroTimes 100 list of industry leaders, those who have shaped the course of the computer industry over the course of the last year. Read about who did what, what worked and what didn't, and a few predictions about what the future holds for high-tech.

In our cover story, Intel chairman Gordon Moore discusses microprocessor technology—386, 486, RISC and beyond.

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December 15, 1989
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Distribution Date: January 1, 1990

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WRITERS' PICKS

The Best Mac Software

Word 4.0 (Microsoft)

S.A.M. (Symantec)

GOfer (Microlytics)

S.U.M (Symantec)

Excel (Microsoft)

FileMaker II (Claris)

Macintosh IIci
Apple Computer

LaserWriter II NTX
Apple Computer

SuperMac 19" Trinitron Monitor
SuperMac

NeXT Workstation
NeXT, Inc.

Portable CD-ROM Player
NEC

SOFTWARE:
QEdit
Semware

Telix/SE
Shareware (included in forthcoming *Dvorak's Guide to PC Telecommunications*, ISBN 0-07-881551-7)

Super PC-Kwik
Multisoft

Animator 3.0
Autodesk

Freestyle
Wang

MARY EISENHART

HARDWARE:
Macintosh SE/30
Apple Computer
Fully justifying the satisfied chortles of my Apple engineer buddies, this speedy little machine will do everything from running A/UX (in its new version) to opening your *PageMaker* screens and drawing your graphics with amazing speed. As a long-term investment, if you want a Mac you can carry around occasionally but don't want to sacrifice speed and power, this is the one to get.

Macintosh IIcx/Apple Two-Page Monochrome Monitor
Apple Computer
Easy to set up, comparable in speed to the SE/30, and capable of more expansion options, this machine is another winner. The Apple two-page monitor is a joy to behold, almost entirely free of glare, flicker, and distortion.

LaserWriter II NTX
Apple Computer
A marvel. Now if only it were cheap...

PhoneNet
Farallon
The built-in networking capabilities of the Macintosh are probably among the few things about the machine that are insufficiently hyped. Farallon has brought Mac networking to an artform; in contrast to the hassle-and-expense-ridden PC networking universe, PhoneNet makes plug-and-play a reality.

PM2400SA Modem
Practical Peripherals
Still working away day in and day out in the office, this low-cost modem survived the earthquake and is still the editorial connection to the online universe.

SOFTWARE:
(all for Macintosh)
MacWrite II
Claris
All the word processor most Mac users will need. Claris completely revamped the aging classic it inherited from Apple, managing to retain its ease of use while adding needed features. Saves files in *Word 3.0* format, so I can use the product I like while adapting to the widespread use of Gates's

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Revenge in the office... Also has the nicest, easiest handling of mailmerge on the planet.

FullWrite Professional
Ashton-Tate
It's too bad this memory-hungry product hit the market at the same time as the RAM crunch, because it really is happiest with four megs or so. However, it represents a remarkable meeting of a visionary concept (it's about the most engaging interface anybody could ask for) and powerful tool. I love its features, I love the way it works (except for a peculiarly counterintuitive outliner), and if it would only save files in *Word* format I'd never use anything else. Except maybe for mailmerge, which *MacWrite* does better.

DiskTop
CE Software

GOfer
Microlytics
My hard disk looks like my office. (Hint: very similar appearance pre- and post-earthquake.) I'm forever forgetting what folder I put a file in, for instance, or what I *named* the file. However, *DiskTop*, in addition to other useful functions, will search out elusive files by a variety of criteria—date, creator, name, etc. And if the only thing I can remember about the file is that it discusses Mom and Apple Pie, *GOfer* will find it. Even if you're a neat, organized person, both these packages are indispensable for keeping the information stored on your hard disk accessible.

FileMaker 4/II
Nashoba/Claris
Lavish praise belongs to Nashoba for creating the product and bringing it to its current state of development, and to Claris for recognizing its fine points, adding it to the product line, and supporting it well. A very Mac-ish combination of power, flexibility and ease of use; I use it constantly for everything from pay reports to subscription list maintenance, and I'm still delighted with it. Like its sibling *MacWrite* (with which it works exceptionally well), it's capable of handling most database functions Mac users are likely to need, and seems to be finding favor as a front end to more sophisticated packages.

Symantec Utilities for Macintosh
Symantec AntiViral for Macintosh
Symantec
These products have averted more catastrophes than the entire Legion of Superheroes. If you have a hard disk, save yourself a lot of heartache and grief and buy these packages now.

BENNETT FALK

HARDWARE:
NeXT Workstation
NeXT, Inc.

Sequent 80386 and 32032
Sequent
Multiprocessor computers

DECstation 2100
Digital Equipment Corporation
MIPS R200-based workstation

SPARCstation
Sun Microsystems
SPARC-based workstation

Telebit T-1000
Telebit
9600 baud modem

SOFTWARE:
SCO UNIX
The Santa Cruz Operation
The first product from SCO that can be called UNIX

DAVID HAWKINS

SOFTWARE:
Dungeon Master (Atari ST/Amiga game)
FTL Software
A great dungeon exploration game with good graphics and an excellent interface.

WordUp (Atari ST word processor)
Neocept Software
An impressive word processor that can handle graphics and fonts well.

FLASH! (telecommunications for the ST)
Antic Software
A very good telecomm program that does various emulations, has a dialing directory, and offers various upload/download options.

Spectre GCR (Mac emulator for the ST)
Small, Inc.
A combo of hardware/software, with a cartridge that holds the Mac 128 K ROMs, and software that makes the Atari disk drive work with regular Mac disks.

GFA-BASIC 3.0
Antic Software
A complete BASIC for the Atari that gives the programmer the ability to work with windows and graphics.

WRITERS' PICKS

The Year's Best Hardware

LaserJet II (Hewlett-Packard)

Macintosh SE/30 (Apple)

LaserWriter II NTX (Apple)

T-1000 9600 Baud Modem (Telebit)

NeXT Workstation (NeXT, Inc.)

DigiView For Amiga (NewTek)

Macintosh IIcx (Apple)

Macintosh IIci (Apple)

PAUL HOFFMAN

SOFTWARE:
MultiFinder
Apple Computer
My reasoning on this may seem perverse, but *MultiFinder* shows better than any other environment how few users are interested in multitasking. Of the common multitasking systems (e.g. *Windows*, *DESQview*, UNIX), *MF* is the easiest to learn and least obtrusive to use. Still, fewer than 20% of Mac users use it. And Bill Gates can't figure out why OS/2 is selling so slowly.

Word 4.0 (Macintosh)
Microsoft
Imperfect and sometimes frustrating, but the right amount of features and power for three-quarters of all word processing users.

Excel (PC or Macintosh)
Microsoft
Same reasons as *Word*.

Viruses
Boy, am I going to catch grief for this one. But without viruses, even fewer people would back up their data regularly. Even with viruses running around, you still have to beat most people with a stick to get them to spend ten minutes a week protecting their work. Viruses have put the fear of data loss into many people and have made them less prone to damage from things that are much more common than viruses, like hardware failure.

PowerStation (Macintosh)
Fifth Generation Systems

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CALCOMP 1043GT A-E, ROLL, 24IPS, 8-PEN, 120'	$8900.00
NUMONICS 5460 C-D, 1-PEN, 7.7IPS, .001	$1895.00
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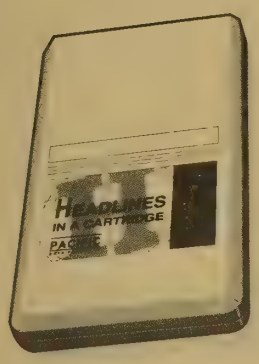

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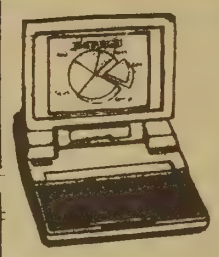

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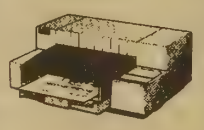

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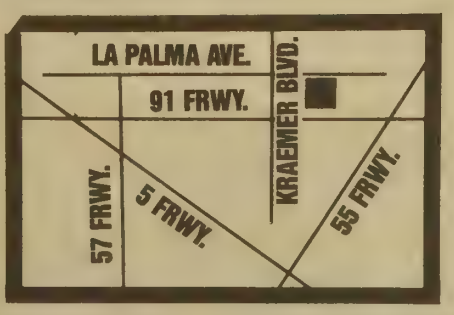

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The Macintosh Portable
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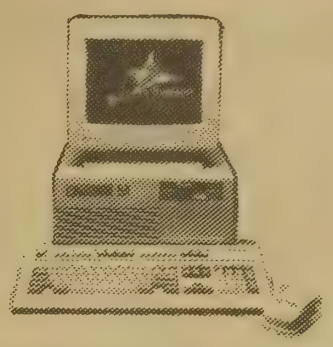

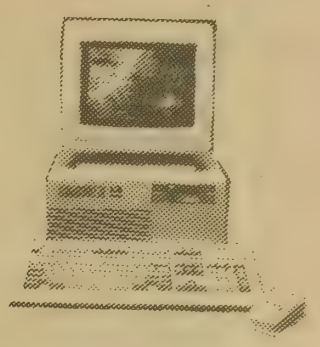

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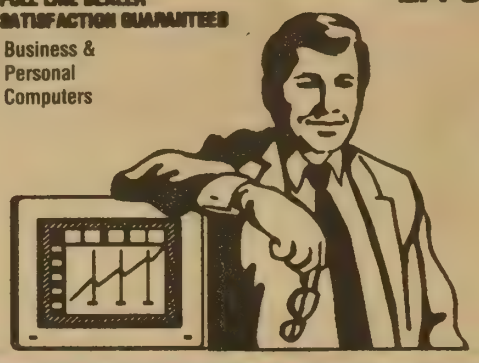

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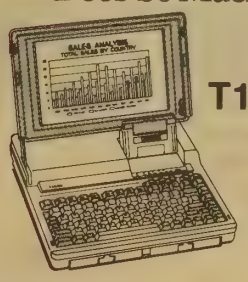

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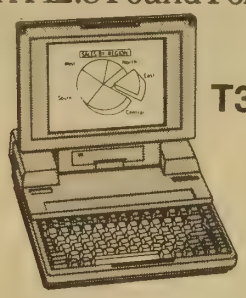

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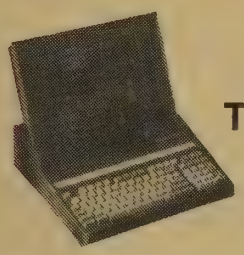

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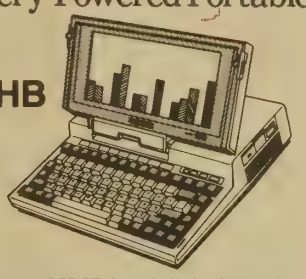

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professional astronomer and the curious kid who wonders "What's that star?"

SuperCard
Silicon Beach
Yes, it's slow, and yes, it has bugs, but this grand extension of the *HyperCard* concept introduces some brilliant ideas and sets a direction for others to follow in "hypermedia," whatever that means. Silicon Beach has acted very responsibly in trying to develop industry-wide standards for the HyperTalk scripting language.

Interactive Physics for Macintosh
Best educational title of the year. Proves you don't have to be a big company to produce great software. Makes thought-experiments come alive on the screen, with powerful analytical tools. Expensive, but worth it.

DAVID MORGENSTERN

HARDWARE:
Macintosh IIcx/ci
Apple Computer
This is the Mac used by BMUG at our Thursday evening meetings. It isn't as easy to carry as a Classic, but it beats out a plain Mac II by a mile—we can see our feet going down the treacherous hall stairs.

DPI 44 Mb removable media drives
DPI
Still the most reliable SyQuest-based drive.

SafeSkin keyboard protectors
Beer- and coffee-drinking BMUG hackers have been glad for their keyboard condoms—members with small kids, too!

Hewlett-Packard DeskWriter
Hewlett-Packard
It isn't perfect, but is the first of many low-cost 300 dpi printers.

BMUG Disk Catalog
BMUG
Hard-hitting hard-copy on software.

SOFTWARE:
S.U.M. (Symantec Utilities for the Macintosh) v. 2
Symantec
If you can't have Steve Costa (BMUG's resident wizard) in your living room, try this.

S.A.M. (Symantec AntiVirus for the Macintosh)
Symantec
A software prophylactic with great sensitivity.

Disinfectant 1.2
Freeware antiviral software (BMUG Utilities 8 disk).

CanOpener
Abbott Systems, Inc.
Can help recover data from corrupted files.

GOfer 2.0
Microlytics
Will help you find that file you buried deep in your hard disk.

SUZANNA MUSICK

HARDWARE:
LaserJet Series II Printer

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VGA card (16bits)
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2 Serial/1 Para./1 Game
Clock/Calendar
1 MB Ram memory
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VGA Card (16 bits)
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2 Serial/1 Para./1 Game
Clock/Calendar
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Panasonic P1124	$ 320
Panasonic P1524	$ 530
Epson LQ-1050)	$ 715
H.P. LaserJet II	$1650
H.P. DeskJet Plus	$ 690

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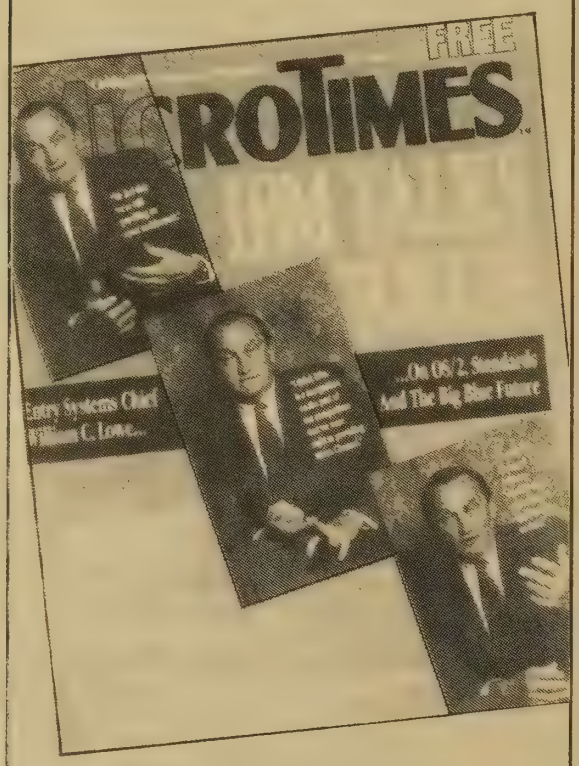
AT Joy stick	$ 39
Micropolis 72 MB HD	$575
Seagate 40 MB HD	$325
NEC Multisync 2A/3D	$530/690

As Told To MicroTimes

"I think the announcement of this EISA direction is a recognition on the part of our competitors that we were right in providing the Micro Channel. I think it's an opportunity for us, therefore, because we're delivering now and they've got a promise for the future.

-William C. Lowe,
then-President, IBM Entry Systems Division.
MicroTimes, December 1988



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Hewlett-Packard
For producing high-quality documents and charts, I love it. And furthermore, in our San Francisco office alone we must have close to a dozen of them, and never once has one required service. And I can assure you, they get used continuously.

H-P 7550A Graphics Plotter
Hewlett-Packard
For creating color overheads and charts it's wonderful. Besides, it's really fun to watch it go.

Datashow
Kodak
For demonstrations and seminars, we would be lost without it.

Network Hardware
Including our ALR 20 MHz, 320 Mb file server, Thomas Conrad Arcnet network interface cards, Arcnet Active Hubs and coaxial cable. This is a package deal with the software, but you need both to function. Also, I'll cheat and add in our Irwin 80 Mb tape backup.

Microsoft Mouse
Microsoft
For *Freelance* and *Excel* it makes it easier to move around, and is often faster than trying to manipulate the cursor keys.

SOFTWARE:
NetWare Version 2.15 SFT
Novell
What was microcomputing like before networking? I have been spoiled by the ease of use, the accessibility of programs and hardware, and the ability to transfer and share files without having to leave my desk. Fortunately, I can't remember the last time I had to type "COPY C:\abcfile A:I."

WordPerfect 5.0
WordPerfect
Honestly, sometimes *WordPerfect* drives me crazy. But because I use it all the time, and almost everyone else does too, I have to love it. And I do appreciate its many capabilities. With the soft fonts we use, everything we do comes out looking good.

Freelance Plus 3.1
Lotus Development
Freelance is cool! It's fun. And we do wonderful things with it for clients and for ourselves. For clients we produce charts that illustrate financial statements and statistics better than any numerical presentation. We use it internally to produce color overheads for presentations and report illustrations.

Paradox 3.0
Borland International
In a former life I used *dBASE* and fumbled my way around in it. Unless you wrote a menu-driven program, it wasn't easy to teach a novice to use it. Since I converted my databases to *Paradox*, now even our department secretary zips around in it and produces the reports we need.

Excel 3.1
Microsoft
Last, but not least, I prefer *Excel* over *Lotus* because *Lotus* requires so many add-ins to accomplish the same functions available as standard features in *Excel*. The downside to *Excel* is that the macros are too wordy.

TONY ROCCO

HARDWARE:
Macintosh SE/30
Apple
Although I bought it with only a megabyte of RAM and use it with a 45 Mb external Jasmine hard disk, it is a wonderful machine, everything that a Mac should be. With additional memory, now becoming more easily affordable, and a full-page or two-page grayscale display, the machine will support my DTP and graphics needs for a long time. Anything math-intensive like a spreadsheet will run without bogging down on the SE/30 thanks to its math coprocessor. Support for virtual memory will allow me to move up to System 7.0 next year.

SOFTWARE:
(all for Macintosh)
Word 4.0
Microsoft
Definitely not for everyone, but definitely for the power word processing user who does not have a great need to create graphics within the application. Requires time and effort to learn, but the rewards are great. Re-configurable menu and keyboard commands are nice, and the table feature should prove useful for many.

On Cue 1.3
Icom Simulations
This is indispensable and should be a regular feature of the Macintosh interface. Go right to the application or file you need from the Finder (or within an application) with no muss or fuss via a user-configurable menu. Works under MultiFinder.

QuarkStyle
Quark
Quark *XPress*'s little brother. I use this application and its multitudinous templates to make business cards, letterhead stationery, and restaurant menus. You can paint by numbers with it, or get creative. A perfect low-level DTP application.

FileMaker 4/II
Nashoba/Claris
I know the latest version is *FileMaker II*, but the pre-Claris Nashoba version is great too. I've found a few inconveniences since reviewing it about a year ago, but overall it's a nice product with a great interface and good layout capabilities.

S.A.M. (Symantec AntiViral for Macintosh)
Symantec
In the age of safe computing, this package has been very helpful in keeping machines around the office virus-free. SAM Intercept scans everything you stick in your Mac for viral contamination, and takes note of suspicious changes to the System. If you get infected anyway, you can knock out any pesky infection with this utility. Any we know about so far, that is.

JEFF SPURRIER

HARDWARE:
Toshiba 1600 laptop
Toshiba

Quadram JT Fax portable
Quadram

DeskJet Plus

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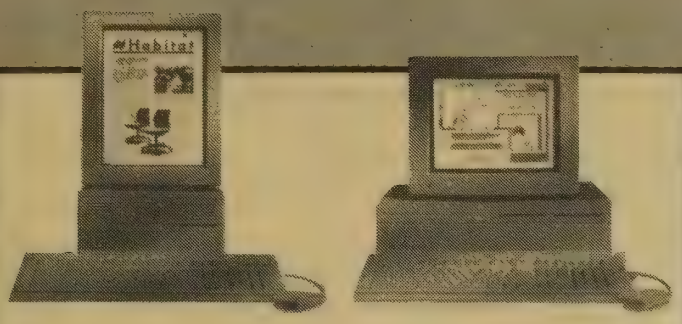

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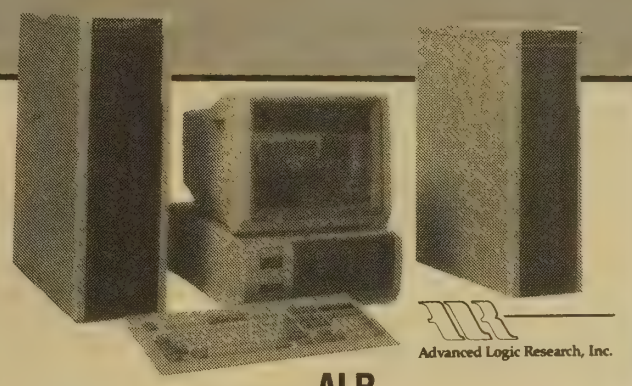

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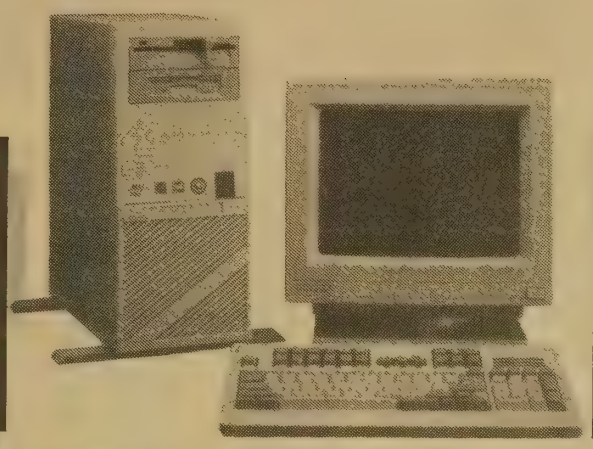

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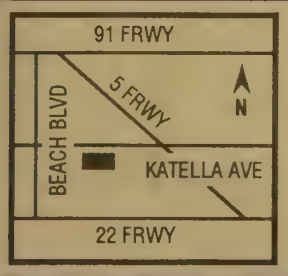

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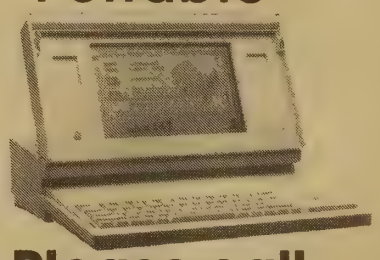

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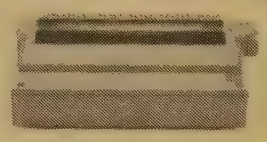

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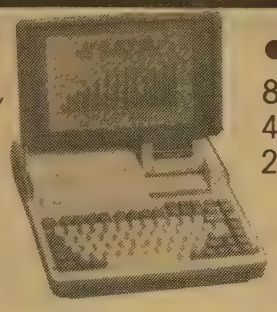

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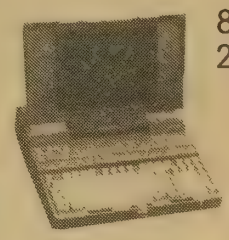

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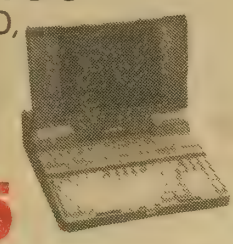

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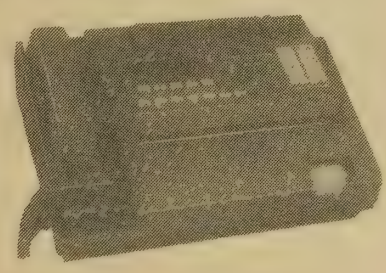

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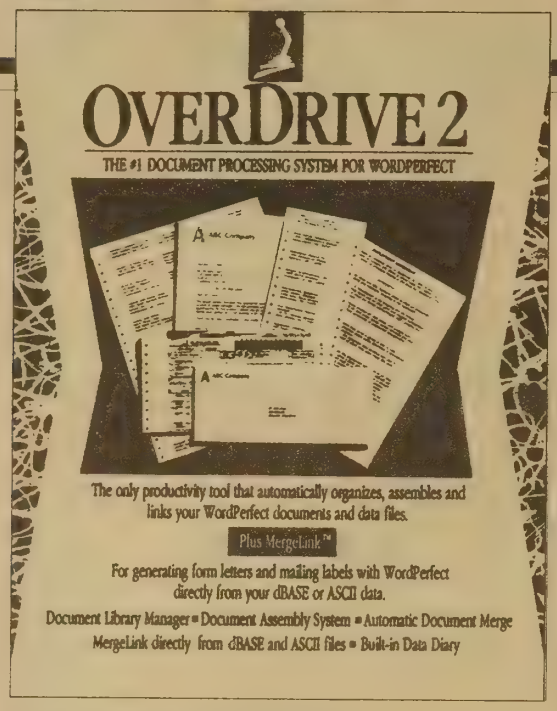
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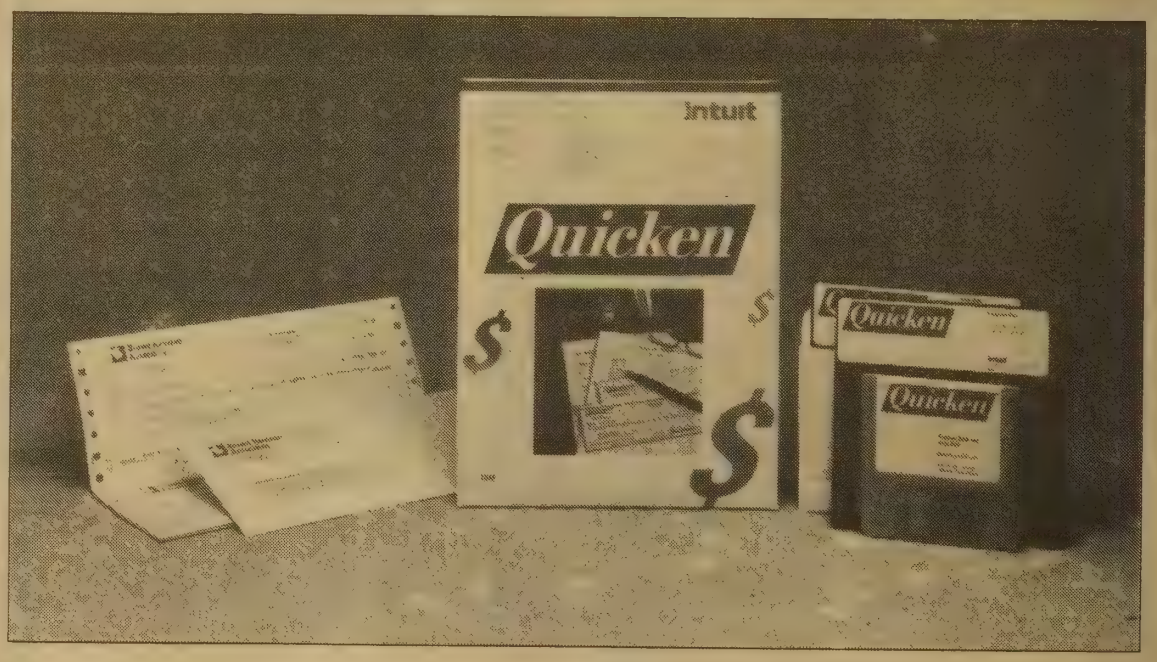

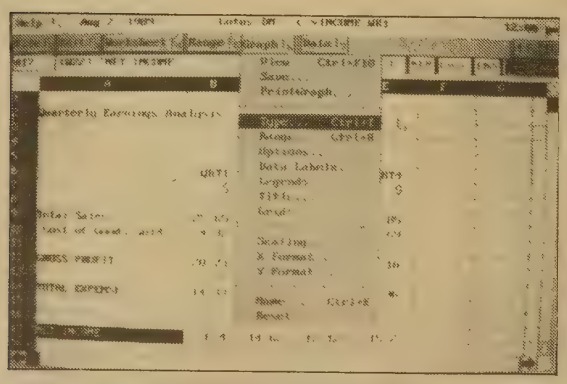

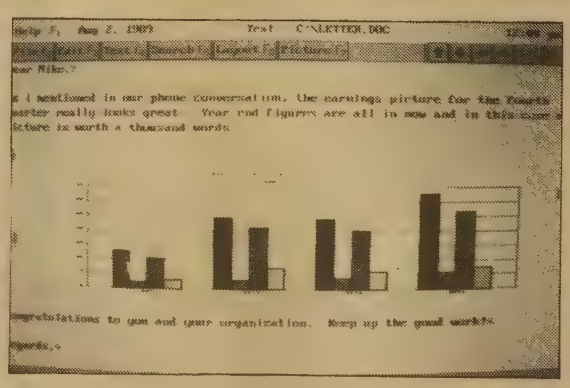

Lotus Spreadsheet For DeskMate

Lotus Spreadsheet for DeskMate is a software product based on the spreadsheet technology of *Lotus 1-2-3* Release 2.01 and includes the Tandy DeskMate Graphical User Interface. As a fully integrated software package, the *Lotus Spreadsheet for DeskMate* features spreadsheet, database, and graphics, and is designed specifically for the small business and home office PC user. The product provides a feature set comparable to *Lotus 1-2-3*, but does not include macros, the add-in capability, or support for expanded memory. Tandy's DeskMate interface operates on Tandy and other PC-compatible computers and on all classes of hardware from the 8088 to the 386 processor. ($219.95) Sue Jensen, Lotus Development Corporation, 55 Cambridge Parkway, Cambridge, MA 02142. (617)577-8500.

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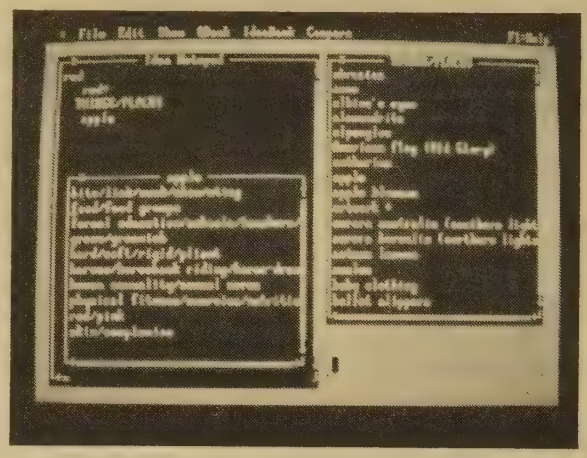
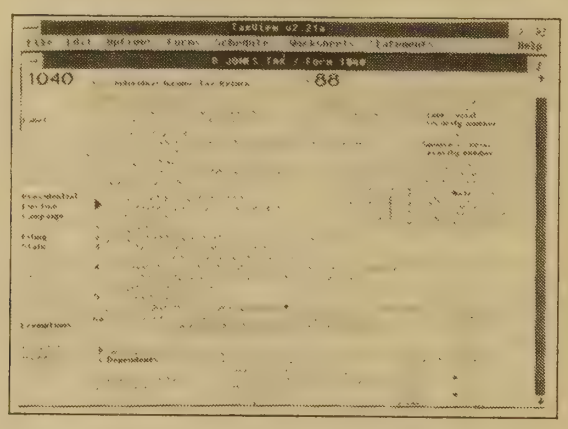


Database Offers Creative Solutions

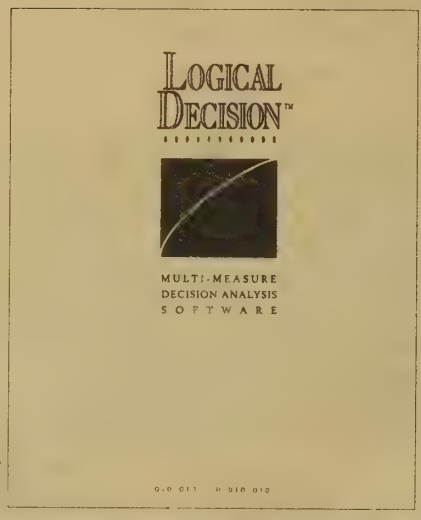
What a conventional dictionary and thesaurus are to words, *IdeaFisher* is to ideas, associations, and concepts, making it a creativity tool with breadth and scope unlike any other. The product performs two distinct functions: the storage and organization of words and concepts. However, rather than listing words along the syntactical guidelines used in a thesaurus, words listed in the program are referenced via loosely defined conceptual rules. For example, the program includes 625 word and phrase associations under the word "red." The vast majority of those entries aren't synonyms or antonyms of the word red but concepts including song titles, slang, technical terms, etc., related to the idea of red. The database can be used by people working in product engineering, product development, marketing, graphic design, system design, fashion design, or any other field where fresh ideas and the time required to generate them are important. In a study conducted at the University of Hawaii, test subjects who claimed to be drained of ideas showed a 90 percent increase in creativity in the same exercise after using *IdeaFisher*. The application runs on any PC XT/AT/386 or compatible with 640 K of RAM and MS-DOS 3.1 or higher. A Macintosh version is soon to be released. ($595) Fisher Idea Systems, (714)474-8111.

Softview Introduces Taxview 1989

Taxview is a set of software applications specifically for tax professionals. It includes the same features as Softview's *MacinTax* personal tax preparation software for the Macintosh and consists of several modules: Taxview 1040, Taxview 1065 (Partnership), Taxview 1120 (Corporation) and 1120-S (S-Corporation), State Supplements, Taxview Integrated Electronic Filing, and Taxview Planner, a multi-year tax modeling program. Because *Taxview* uses Softview's proprietary forms-based technology, it offers users several unique features and

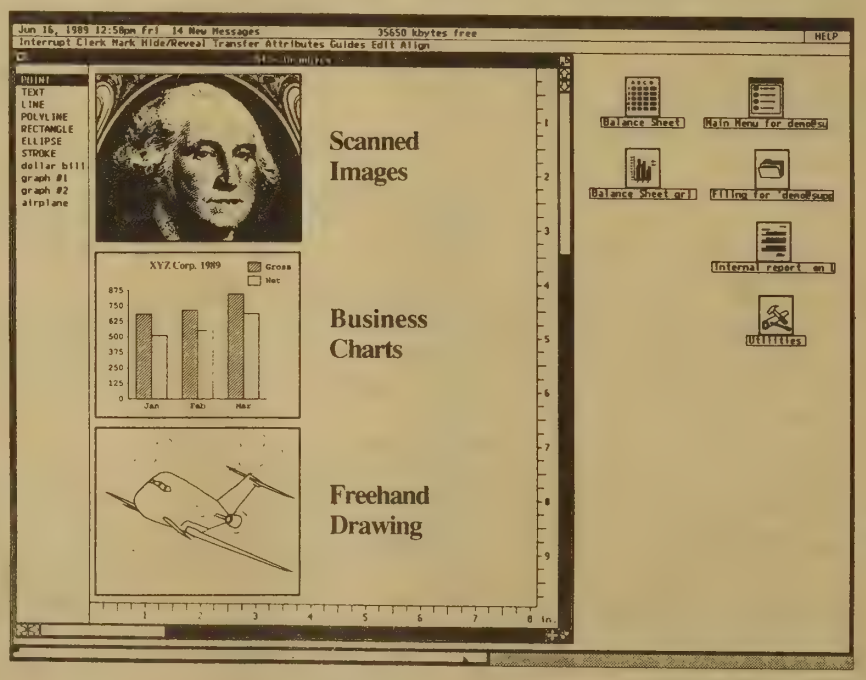


benefits. It prints out exact replicas of IRS forms on plain blank paper, using either a laser or dot-matrix printer, without the need for separate forms software or special font cartridges. IRS forms and schedules are displayed on screen in actual IRS format. Users can enter data directly in displayed forms that are linked together so that as new data are entered, recalculations are performed automatically on all relevant documents. The program also checks all input to prevent inconsistent and incomplete entries. ($150–495 per module) Softview, Inc., Jeff Felder, 1-805-385-5000.



New Software Aids The Decision-making Process

Logical Decision is application software that analyzes your decisions quantitatively. You define a set of alternatives and a set of quantitatively measured characteristics to evaluate the alternatives. Then *Logical Decision* helps you to systematically formulate your preferences about the characteristics and then combines the information to give you a quantitative ranking of your alternatives. *Logical Decision* uses powerful methods from the field of Decision Analysis to help you quantify your preferences. These methods have previously been available only on mainframe computer programs. *Logical Decision*'s interactive features let you evaluate alternatives instantly once the alternatives and your preferences have been quantified. ($295) Logical Decisions, 164 E. Scenic Ave., Point Richmond, CA 94801. (415)233-8920.



Alis Provides Office Automation On A Network

Alis office automation software from Applix provides comprehensive office automation capabilities on networked computer systems from different vendors for IBM RT computers running AIX. *Alis* is integrated office automation software that provides word processing, spreadsheet, graphics, database, calendaring, and electronic mail capabilities. Users can combine text, graphics, and data elements in a single document, edit the document without switching from program to program, and transmit the document to any other system in a network that runs *Alis*. *Alis* runs on networked DOS-based computers, Ultrix and VAX/VMS systems from DEC, and UNIX-based systems from IBM, Sun, H-P/Apollo, and other vendors. Applix, Inc., 112 Turnpike Road, Westboro, MA 01581. (508)870-0100.

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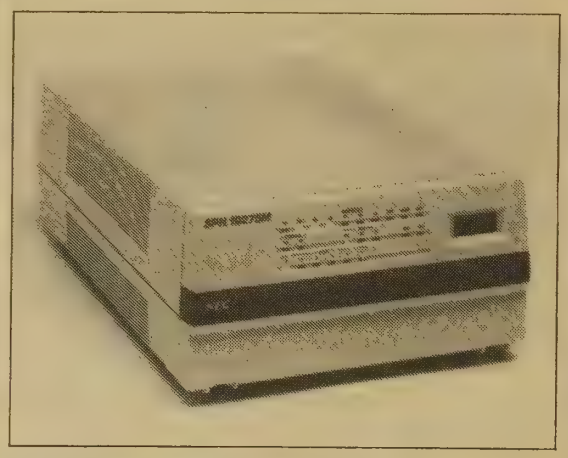
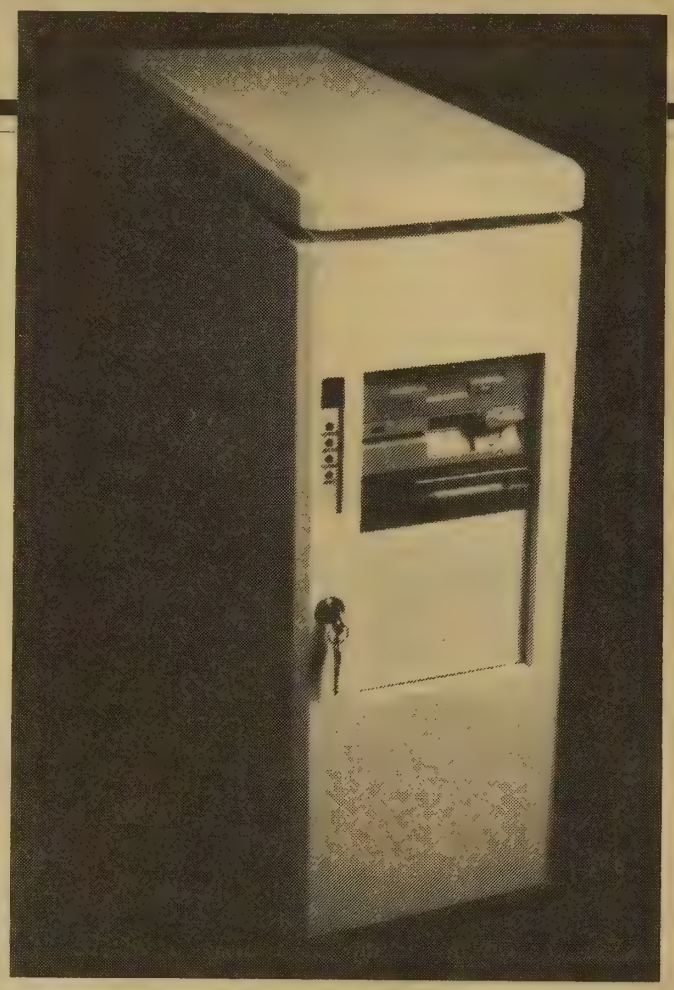


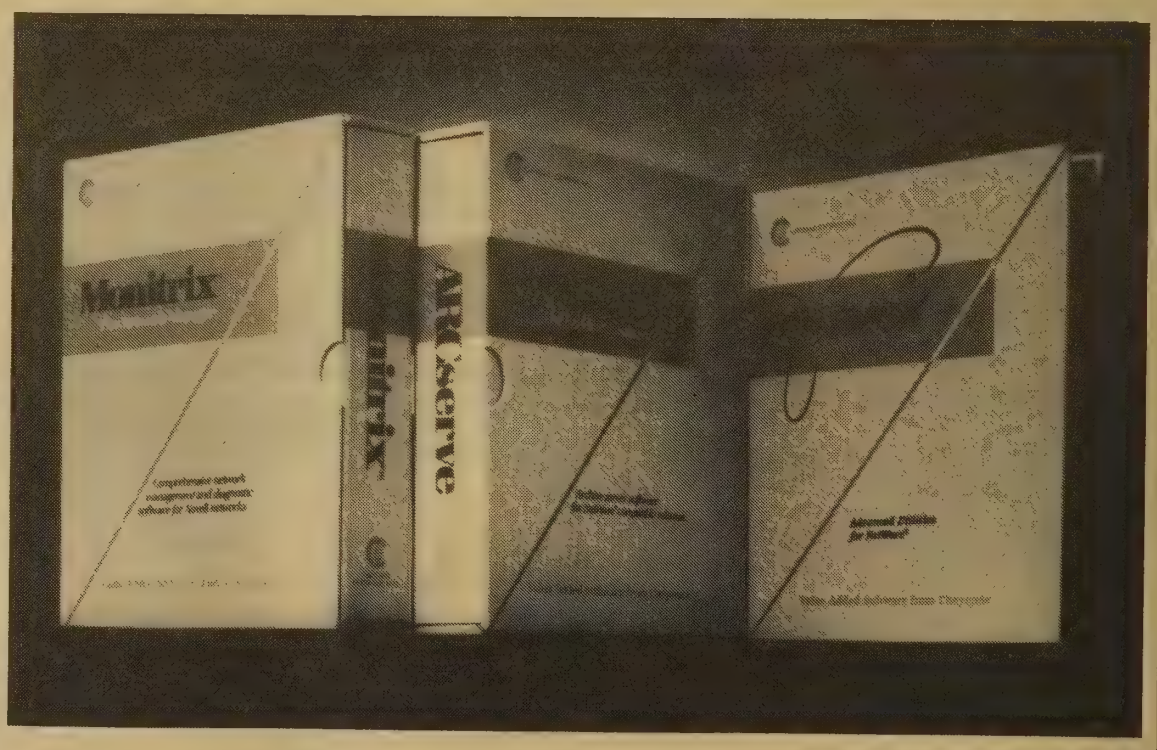
NEC Diagnostic Modem Reduces Leased-line Costs

Network managers can reduce the cost of operating a leased-line modem network, increase the efficiency of the link, and control the network with the new 19,200 baud stand-alone diagnostic modem from NEC. The SPN19275M includes as standard features an internal dial backup unit, automatic speed fall back and fall forward, data branch, and a six-port time division multiplexer. It also has built-in capabilities that allow managers to monitor, test, and control an entire modem network from the central site modem. The SPN19275M transmits user data over the primary communications channel at 19,200 bits per second while performing non-disruptive network monitoring functions via a 75 bit-per-second side channel. If problems occur with the modem link, alarm information based on threshold values appears on the front panel. If the data is affected, the modem can automatically fall back to a preset speed then automatically fall forward again when line conditions improve. ($7495) NEC America, Inc., Data and Video Communications Systems Division, 110 Rio Robles, San Jose, CA 95134. (408)433-1250.



Lanserv Offers Fault-tolerant Storage For NetWare Users

Lanserv Corporation has introduced its Lanserv FT series of high-capacity (up to 1.2 Gb) fault-tolerant file servers for Novell SFT NetWare and NetWare 386 local area networks. Twin disks operate in either mirrored or duplexed mode. If the primary disk should fail, the second immediately takes over with no loss of data. An 80386-based SCSI interface provides fast data throughput plus the flexibility to accommodate optical or tape drives in addition to magnetic drives. The file servers provide for ten half-height or five full-height drive bays.The Lanserv FT series is available with the Novell system software already loaded on the file server, thereby allowing the file server to be installed faster. ($7495–14,495) Lanserv Corporation, Creek Court, San Jose, CA 95125. (408)293-4888.



Cheyenne Offers Three Network Solutions

Cheyenne, an independent software vendor for Novell, offers the LAN user three software solutions: *ARCserve*, *Monitrix*, and *NetBack*. *ARCserve* is a centralized backup/restore solution which allows all users on a network to share the archiving device, whether disk, tape, Bernoulli box, or optical disk. *ARCserve* runs in the background in the server without requiring a separate box. *Monitrix* is the first full-function network management and control program that gives a LAN administrator mainframe type control on a local area network. It provides network performance statistics for diagnosis, troubleshooting, and capacity planning. As a VAP, *Monitrix* provides background monitoring of network resources such as printers and network disk space. *NetBack* is a set of NetWare utilities providing an array of vital network management tools. The package integrates flexible file-management features with the ability to quickly construct or reconstruct a server's bindery. This allows network administrators to rapidly restore crashed servers, create new servers, or upgrade NetWare versions within minutes, without the need for tedious rekeying. Cheyenne, Inc., 55 Bryant Ave., Roslyn, NY 11576. (516)484-5110.

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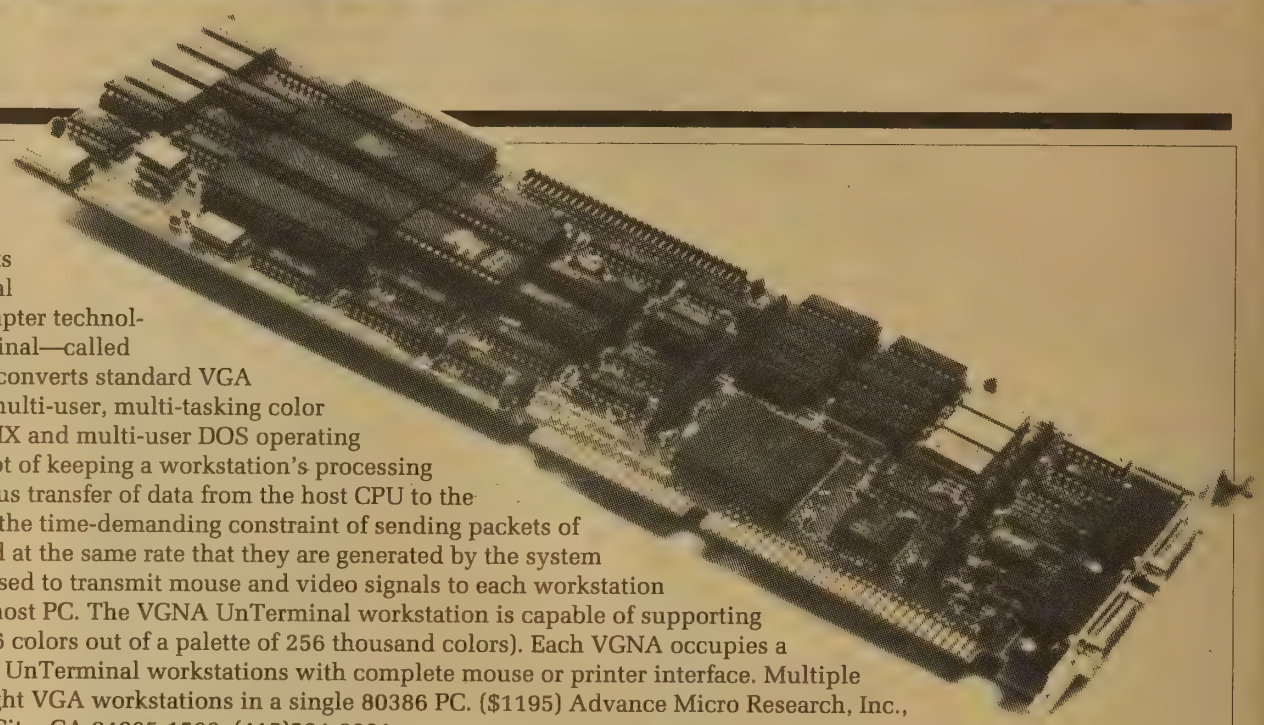
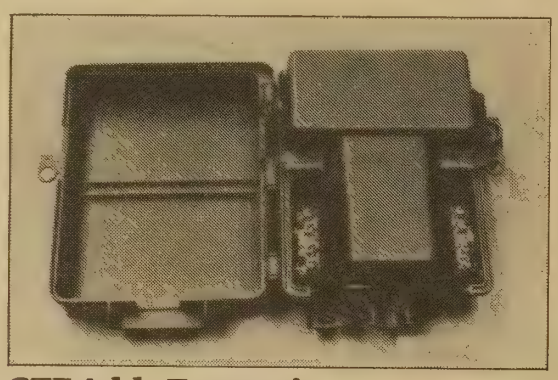


Advance Micro Ships Color UnTerminal

Advance Micro Research, Inc. has shipped its VGA version of the monochrome UnTerminal workstation based on its Video Network Adapter technology (VNA). The VGA version of the UnTerminal—called VGNA (Video Graphics Network Adapter)—converts standard VGA monitors and PC keyboards to inexpensive multi-user, multi-tasking color graphic workstations under SCO XENIX/UNIX and multi-user DOS operating systems. VNA technology applies the concept of keeping a workstation's processing engine on the PC bus during the instantaneous transfer of data from the host CPU to the workstation's display memory—eliminating the time-demanding constraint of sending packets of data. Multi-color VGA graphics are generated at the same rate that they are generated by the system processor. State-of-the-art multiplexers are used to transmit mouse and video signals to each workstation located several hundred feet away from the host PC. The VGNA UnTerminal workstation is capable of supporting an extended color resolution of 800 x 600 (16 colors out of a palette of 256 thousand colors). Each VGNA occupies a full-size PC expansion slot and supports two UnTerminal workstations with complete mouse or printer interface. Multiple adapters can be installed to support up to eight VGA workstations in a single 80386 PC. ($1195) Advance Micro Research, Inc., Paragon Point/One Lagoon Drive, Redwood City, CA 94065-1562. (415)594-9991.

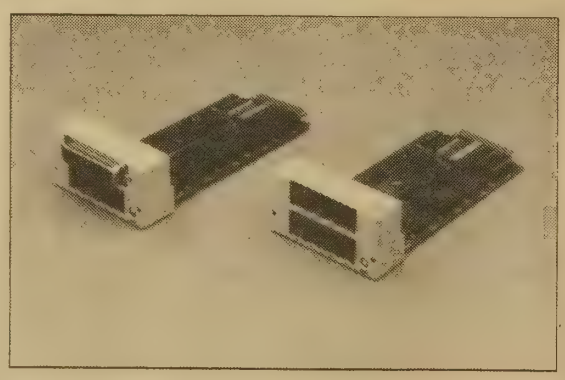


GTE Adds Two-pair Network Interface

GTE has added to its family of telecomm network products a new two-pair network interface device. This device, called the CP-830, is designed to provide a distinct demarcation point between the telephone company line and the customer's wiring, as required by FCC Part 68. This unit also provides adjustable card slots and mounts a variety of protection devices. It can be used indoors or outdoors for new or existing installations where the protector, interface, and station electronics can be mounted together. The CP-830 offers complete security for the customer and the telephone company, with an override feature and side-hinged covers for easy servicing. GTE Electrical Products Group, 100 Endicott St., Danvers, MA 01923. 1-800-392-3908.

Motorola Releases Desktop Servers

Motorola has released a line of desktop servers to provide small businesses, departmental workgroups, and distributed processing customers with UNIX platforms that are easily networked and powerful enough to run large databases and networked applications for PCs and terminals. The new Delta Series 3000 Model 3200 network servers are based on the company's MC68030 microprocessor and deliver clock speeds of up to 25 MHz. The servers fill in the low end of MCSD's line of multi-user, multi-processor computer systems and provide a growth path from systems supporting from four to more than 500 users. The new systems use the System V/68 operating system, Motorola's implementation of AT&T's UNIX System V Release 3. Compliance with the industry standard VMEbus architecture and the UNIX System V Interface Definition ensures that the Model 3200 can support peripherals, components, and applications designed to run on any other MCSD computer. The Model 3200 comes in two configurations, the difference being clock speed, an on-board network interface, and memory capacity. ($7495/19,785) Motorola Inc., Computer Systems Division, 10700 North De Anza Blvd., Cupertino, CA 95014. (408)864-4480.



Laserplex Provides Transparent Spooling For Up To Eight PCs

Laserplex is a hardware spooler designed for the H-P LaserJet series II & IID printers. The Laserplex plugs into the Optional I/O slot at the back of the LaserJet. Once installed, it acts as an intelligent buffer, spooler, and switch-box integrated right inside the LaserJet and takes no room on the desktop. Available in two models—the Model 50 for sharing by five PCs has one parallel and four serial inputs and the Model 80 for sharing by eight PCs has eight serial inputs—the Laserplex can be set to "Turbo" speed of 57,600 baud, which means the user can print three times faster than through the LaserJet's built-in serial port. The Laserplex can receive data from all connected computers simultaneously. A powerful yet easy to use command protocol enhances the capability of the Laserplex with features such as multiple collated copies, separate and individualized printer setup and reset strings, and end-of-printjob timeouts. ($495/595) Laserplex Corporation, 510-A Valley Way, Milpitas, CA 95035. (408)946-2298.

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- 2 Serial/2 Parallel/1 Game
- AT FDD & HDD Controller
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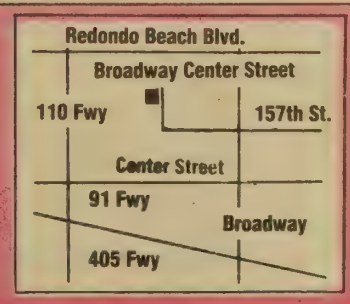

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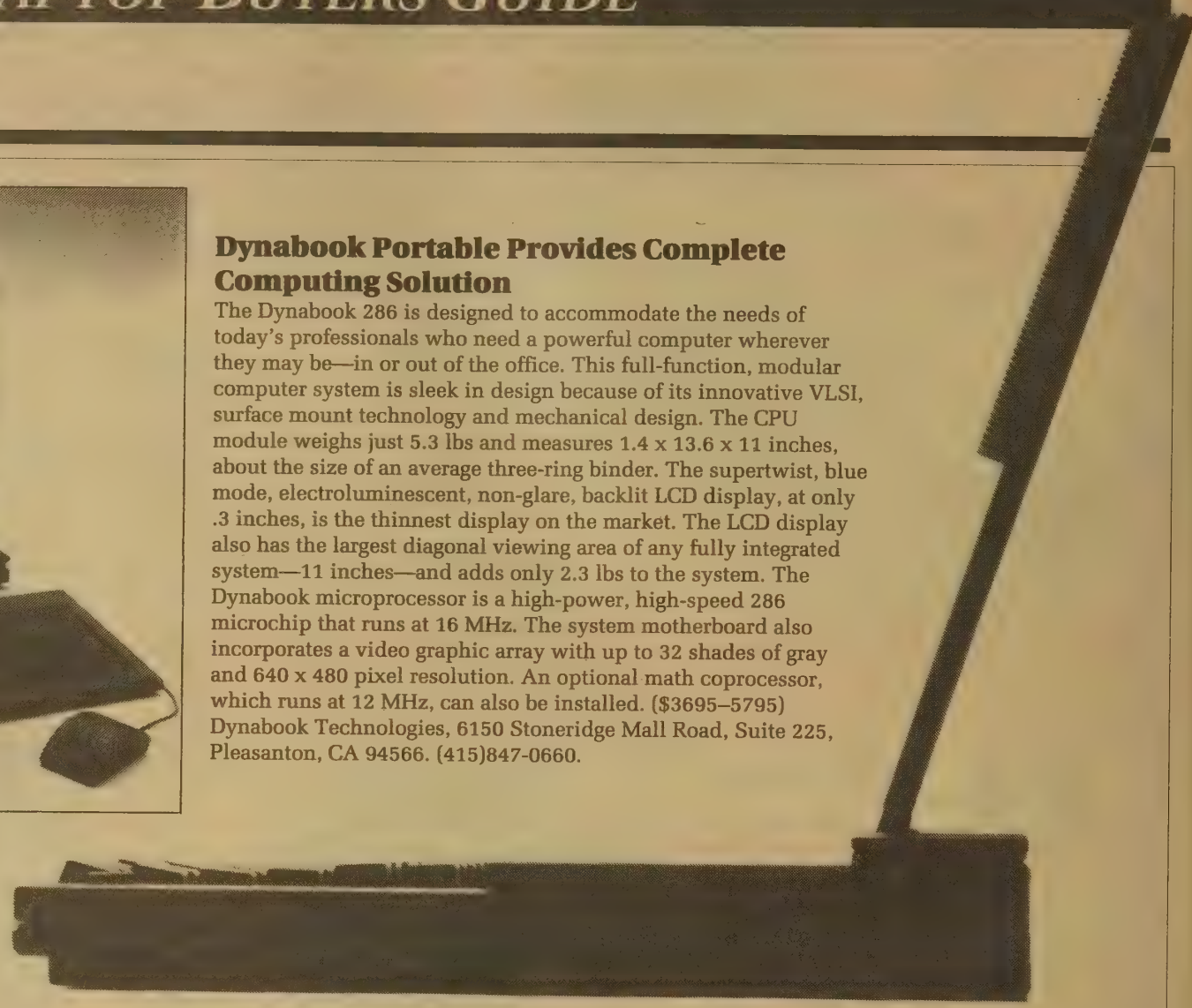
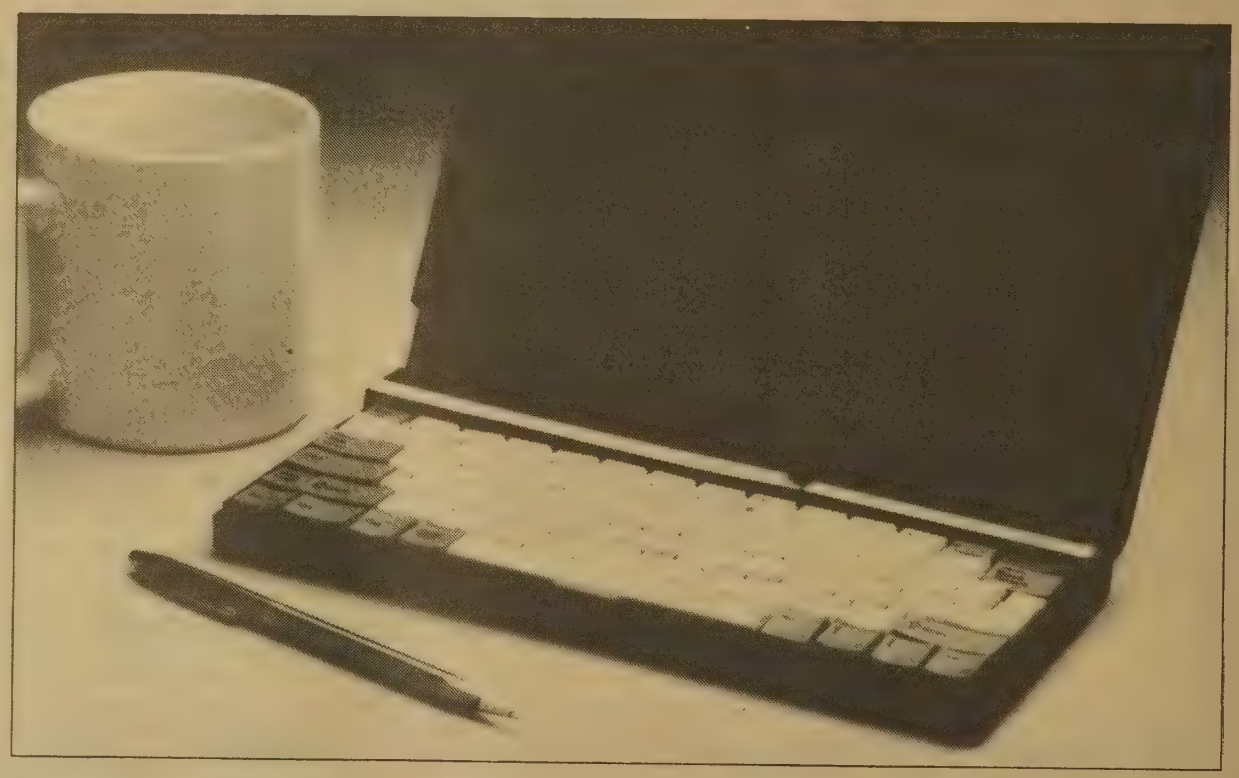
PC LAPTOP BUYERS GUIDE

Dynabook Portable Provides Complete Computing Solution

The Dynabook 286 is designed to accommodate the needs of today's professionals who need a powerful computer wherever they may be—in or out of the office. This full-function, modular computer system is sleek in design because of its innovative VLSI, surface mount technology and mechanical design. The CPU module weighs just 5.3 lbs and measures 1.4 x 13.6 x 11 inches, about the size of an average three-ring binder. The supertwist, blue mode, electroluminescent, non-glare, backlit LCD display, at only .3 inches, is the thinnest display on the market. The LCD display also has the largest diagonal viewing area of any fully integrated system—11 inches—and adds only 2.3 lbs to the system. The Dynabook microprocessor is a high-power, high-speed 286 microchip that runs at 16 MHz. The system motherboard also incorporates a video graphic array with up to 32 shades of gray and 640 x 480 pixel resolution. An optional math coprocessor, which runs at 12 MHz, can also be installed. ($3695–5795) Dynabook Technologies, 6150 Stoneridge Mall Road, Suite 225, Pleasanton, CA 94566. (415)847-0660.





Poqet PC Runs For 100 Hours On Two AA-size Batteries

By making extensive use of proprietary power management techniques, a low-power screen display, and state-of-the-art integrated circuit memory technology, The Poqet PC is capable of running up to 100 hours using two standard AA alkaline batteries. This laptop features a full 80-character by 25-line display and a 77-key, QWERTY keyboard. Measuring 8.75 x 4.3 x .9 inches and weighing one pound, The Poqet PC fits easily inside a briefcase, purse, or jacket pocket. Also available is a battery-operated, 1.44 Mb, floppy disk drive that runs on four AA-size batteries, allowing users to transfer files and programs from The Poqet PC onto disks compatible with desktop computers. The drive will operate for 25 hours on batteries, based on an assumed 20 percent utilization rate. ROM Poqet Memory Cards are available for applications such as *AlphaWorks*, *Lotus 1-2-3*, *Agenda*, *WordPerfect* 5.0, and *Xywrite III Plus*. Additionally, The Poqet PC is equipped with five built-in MS-DOS applications programs, called PoqetTools, enabling user to begin working with the computer immediately. The heart of the computer is a low power, 8088 chip running at up to 7 MHz. System memory includes 512 K of RAM and 640 K of ROM. System ROM includes MS-DOS 3.3, GW Basic, and the built-in applications. ($1995) Poqet Computer Corp., 650 North Mary Ave., Sunnyvale, CA 94086. (408)737-8100.

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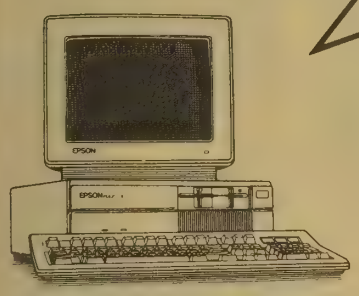

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- 640KB RAM memory, expandable to 15.5MB
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- Enhanced, detachable AT-style keyboard
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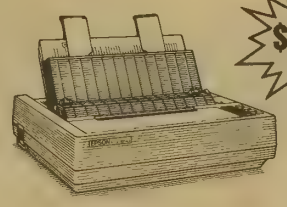

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EQUITY™ 386/20 PERSONAL COMPUTER

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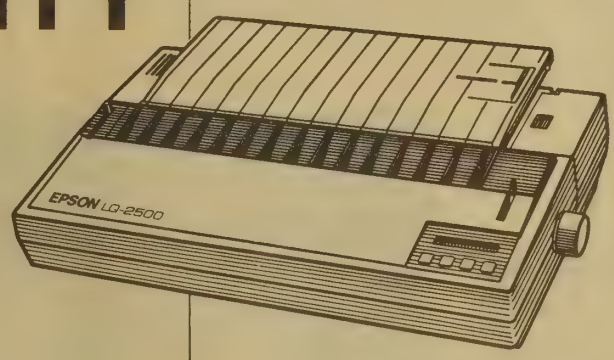

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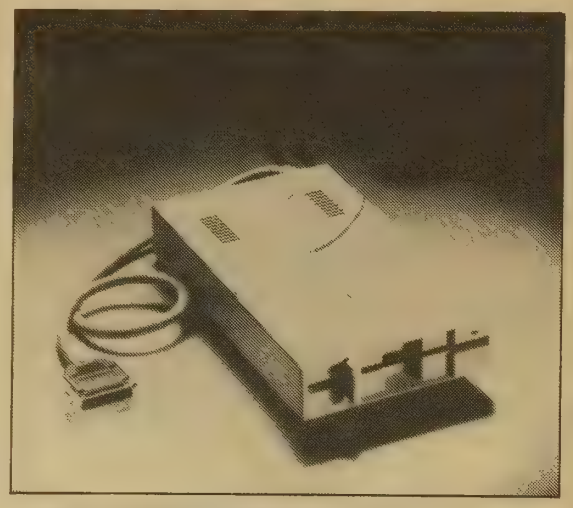
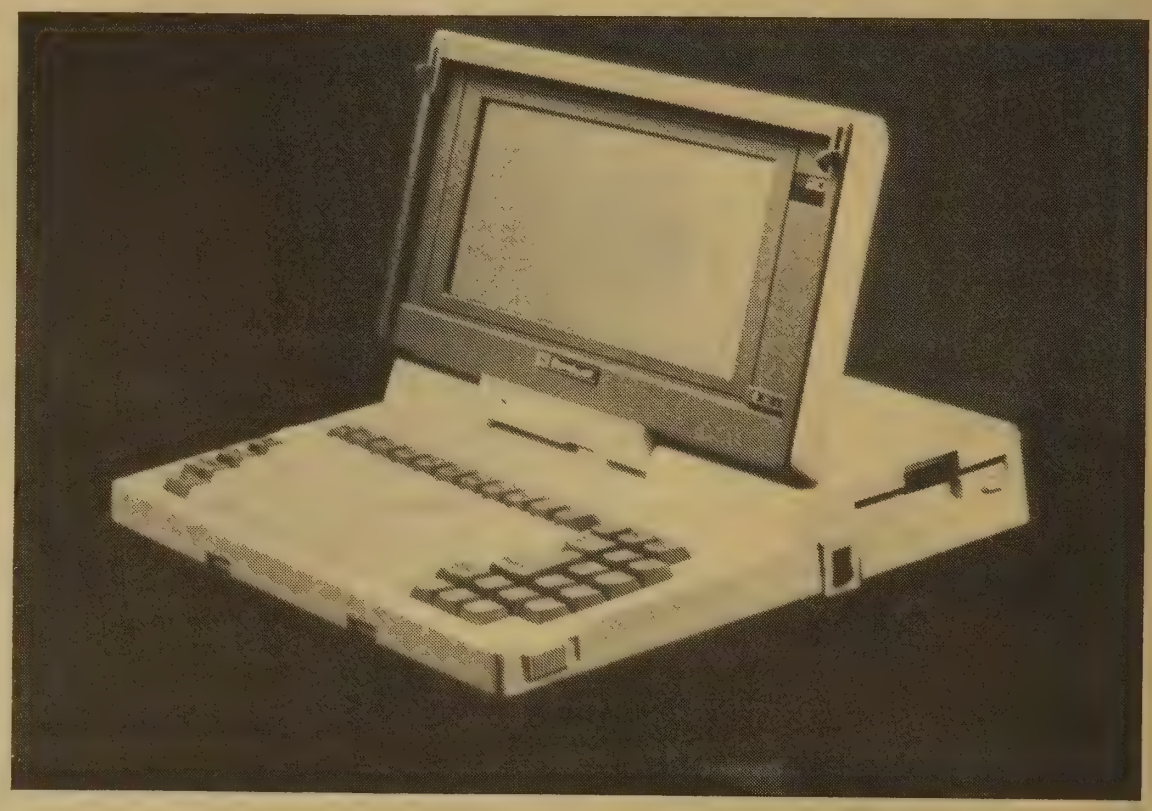


CNF Adds Multidrive IIs To Laptop Line

The Multidrive IIs are a complete line of external 51/4", auto-sensing (high and low density), floppy disk drives for 286 and 386 Toshiba laptop computers, Zenith SupersPort 286s, and Compaq SLT/286 computers. With their small metal enclosures, the Multidrive IIs are easily transportable. Their molded cable interface connects directly to the floppy drive port on the laptop computer with no tools required. Driver software is not needed to make the drives act as A or B. The Multidrive IIs are geared to international travel and function in either an American 110 volt environment or with 220/240 volts, depending upon which external regulated power supply is provided. ($299.99) CNF, Inc., 17705 Hale Avenue, Building I, Suite 2, Morgan Hill, CA 95037. (408)778-1160.



Bondwell Machine Weighs In At Only Eight Pounds

Featuring a slim design, the B200 comes with a supertwisted LCD high-reflective screen display, 640 K RAM, dual 31/2 inch 720 K floppy disk drives, full-size 81-key keyboard, 10 function keys, serial and parallel ports, RGB video port, built-in NiCad removable and rechargeable battery pack that lasts up to six hours, and a bundled package that includes MS-DOS 3.30, GW-BASIC 3.22, and utilities. ($1295) Bondwell Industrial Co., Inc., 47485 Seabridge Dr., Fremont, CA 94538. (415)490-4300.

NEC Produces ROM Software For UltraLite

NEC Home Electronics is now selling ROM card versions of *WordPerfect* 5.0, Microsoft *Works* 1.05, *WordStar* 5.5, and XYQUEST's *Xwrite III Plus* for its UltraLite laptop, a 4.4 lb portable computer. Configured specifically for the UltraLite, software in ROM card format is approximately the size of a credit card. The UltraLite computer ROM card implementation involves no moving parts, making it extremely durable. In addition, by providing software application on the ROM cards, more valuable hard disk space remains available for data. ($195–495) NEC Home Electronics, Inc., 1255 Michael Drive, Wood Dale, Illinois 60191. (312)860-9500.

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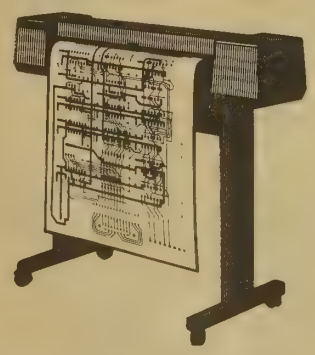

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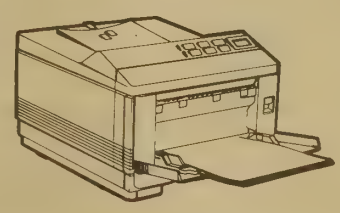

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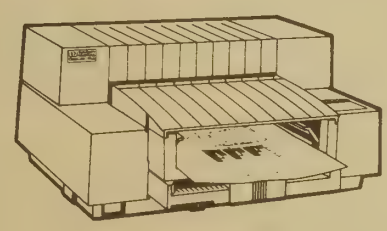

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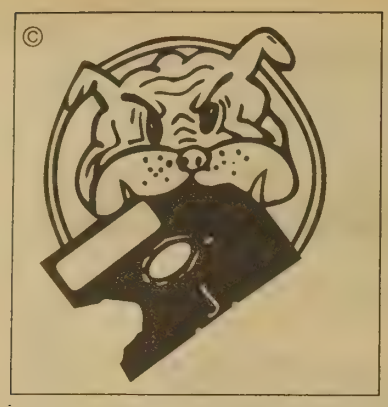

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PC-WRITE MACROS (#1193) 100 advanced macros for PC-Write (v. 3.0 or later).
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EXPRESS CHECK 3.07 (#750) A checkbook program to track multiple acocunts and transactions.
CHEX 2.41 (#857) Powerful & customizable checkbook program for balancing & reconciliation, printing checks, etc.
PAYROLL SYSTEM USA (v. 2.11) - 1989 VERSION (#172 & 173) Extremely powerful & versatile payroll for up to 2,000 employees. Req. 640K (for maximum of 2,000 employees); hard disk recommended.
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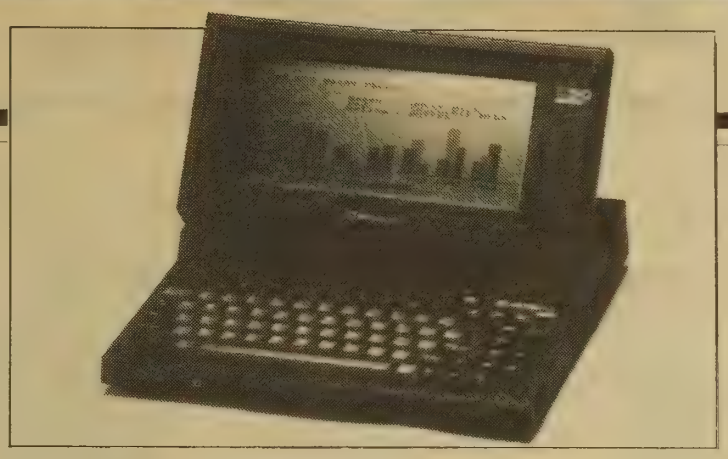
PC LAPTOP BUYERS GUIDE



Bondwell Introduces Ultra-slim 286 Laptop

Bondwell Industrial Co. has introduced the B310, a small, light, and powerful 286-based laptop. Weighing only 8.5 lbs and measuring just 13 x 12.2 x 2.2 inches, the B310 offers a unique combination of power and speed in a light, compact package. Based on a 12 MHz 0-wait state, 286 CPU, the laptop has a 40 Mb hard disk drive with a 1:1 interleave, a high contrast, non-glare, supertwisted LCD screen, 1 Mb of RAM, a 1.44 Mb 31/2 inch floppy disk drive, and a rechargeable battery pack. A soft carrying case and a second rechargeable battery are optional. ($3695) Bondwell Industrial Co., 47485 Seabridge Drive, Fremont, CA 94538. (415)490-4300.

Portable Computer Protection From ESP

The MPS-2 is a versatile unit from Electronic Specialists that provides complete protection and interference control for the traveling portable computer. Combining broadband AC power filtering, extended range spike suppression, modem and communication line RF filtering, modem spike/surge suppression, and a static discharge plate, the compact device is ready to travel anywhere portable computers can be used. Connecting to a standard AC wall socket with a six-foot power cord, filtered and protected power is available from a conventional 3-prong AC outlet and a CEE-22 universal power connector. Modem communication connects through standard RJ-11 modular connectors. ($199.95) Electronic Specialists, Inc., 171 South Main Street, Natick, MA 01760. 1-800-225-4876.

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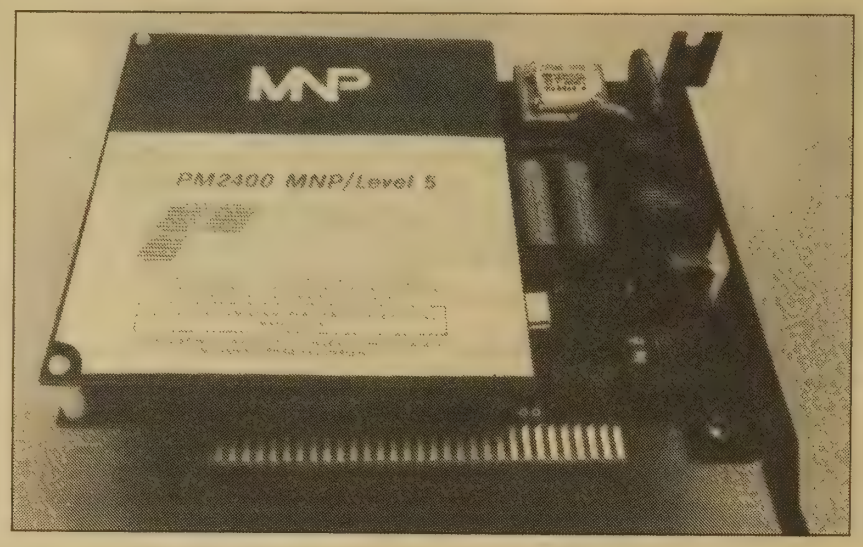
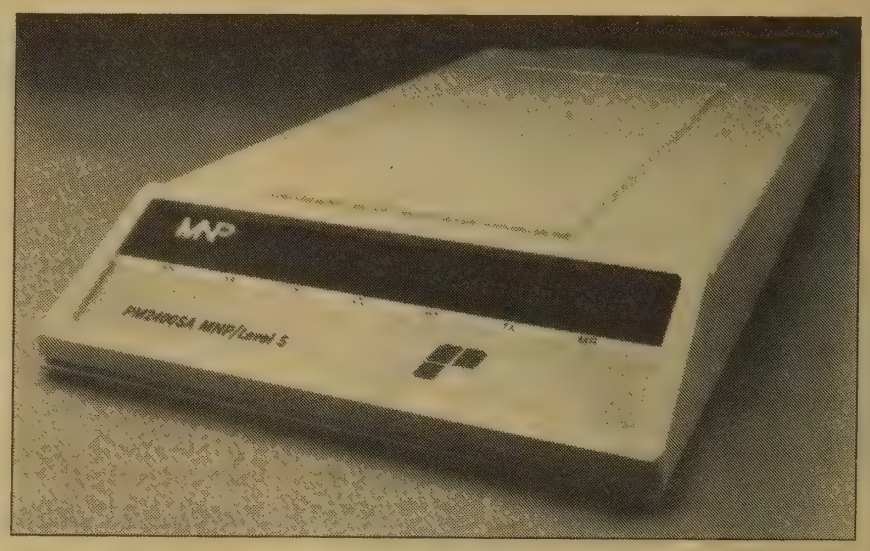
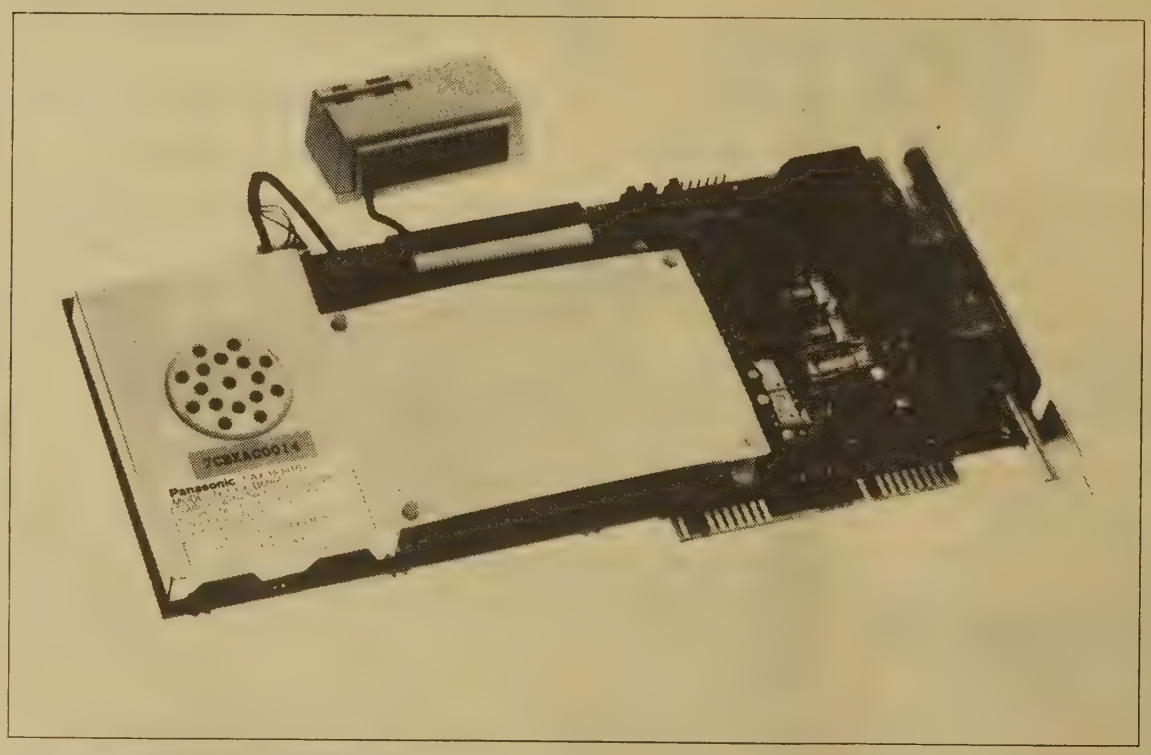
PC TELECOMMUNICATION BUYERS GUIDE





Practical Peripherals Offers MNP Level 5 Modems

The PM2400 SA MNP standalone and PM 2400 MNP internal modems are 100 percent Hayes compatible and support the Microcom Network Protocol Level 5 (MNP), offering totally error-free data exchange during interactive connections with throughput rates up to 4800 bps. Other features include non-volatile RAM that stores user configuration profiles, accommodating two different stored profiles and four telephone dial strings. All modem settings are software controllable, and numbers can be dialed from the terminal screen. Three different modem status screens are available allowing users to view configuration parameters. The PM2400 SA MNP can be used with any computer or terminal supporting an industry standard RS232C serial port. It has seven front panel mounted LEDs, including two multicolor LEDs for MNP functions. Error correction in progress is indicated as well as speed of DCE-DCE connection or DTE-DCE link. The PM2400 MNP can be installed in any standard bus IBM PC, XT, or AT compatible computer. The half-card board requires a single short slot. An external dip switch sets the modem for com port 1 through 4. Both modems come with a 5-year warranty. ($299/249) Practical Peripherals, 31245 La Baya Drive, Westlake Village, CA 91362. (818)706-0333.

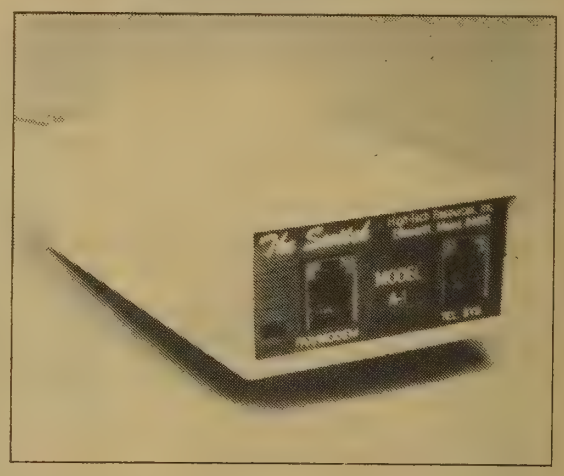


Panasonic Unveils Fax Board With Background Operation

The FX-BM89 Plus2 Partner is a low-cost, full-featured PC-fax board that allows user to send and receive fax messages while continuing other computer applications. The fax board also offers the convenience and efficiency of an automatic print mode and an enhanced view function from previous models. Using the menu-driven software, the fax board can send and receive documents to and from all Group III facsimile machines. Users are alerted to incoming messages by an LED indicator that appears on the screen, and the incoming messages are automatically printed out on a dot matrix or laser printer. ($599) Panasonic Office Automation, Two Panasonic Way, Secaucus, New Jersey 07094. (201)348-7183.

Fax/Modem Switch Automatically Directs Calls

The Switch Model A-1 discriminates between incoming calls, routing fax calls to the fax machine and voice calls to phones. Transparent to both caller and receiver, the Model A-1 is compatible with fax machines, dial modems, and both touchtone and pulse-key telephone



systems. It can be used on 110 60 Hz or 220 50 Hz, and single-line or multi-line installations with or without an answering machine. Other features include a programmable ring count for no-answer default to the fax machine or modem device, unattended receive, an LED to indicate in-use condition of either port, and the ability to switch between voice and fax. ($159.95) High Tech Resources, 230 Main Street, Ellsworth, Maine 04605. (213)378-1641.

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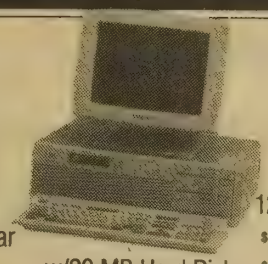

- 80286 CPU
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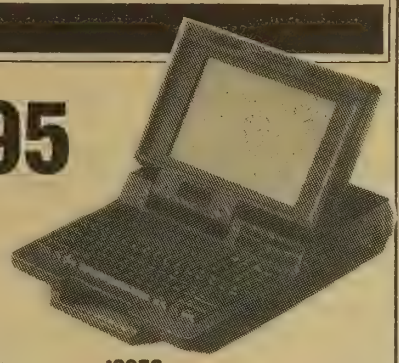
w/80 MB Hard Disk	$1300	$1475	$1525

LC 286 LAPTOP



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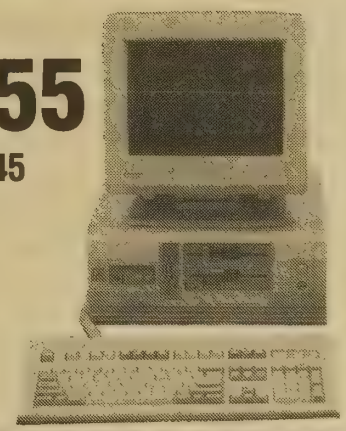

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Panasonic 1180/1124 Printers	185/305
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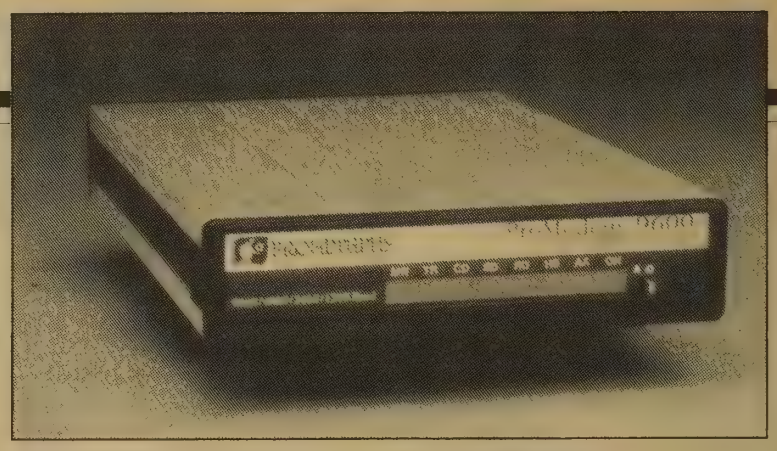
PC TELECOMMUNICATION BUYERS GUIDE

New Integrated Approach To Dial-up Security For Single-line Systems

The TraqNet 2001 provides a dial-up security system that brings "big system" access security technologies to single-line dial-up systems. Users can protect single-line systems using either call-back technology or secure call-in (with the company's InfoKey portable secure call-in device included with the system). Security applications for the TraqNet 2001 include: mainframe or mini-computer maintenance ports; LAN-to-LAN, PC-to-PC, or other host-to-host dial-up communications; and businesses with a single dial-in computer line. The TraqNet 2001 supports up to 256 users and is programmable using an ASCII terminal or a PC with LeeMah's Directory Editor and Upload/Download program. Lee Mah Data-Com Security Corporation, 3948 Trust Way, Hayward, CA 94545. (212)807-1400.



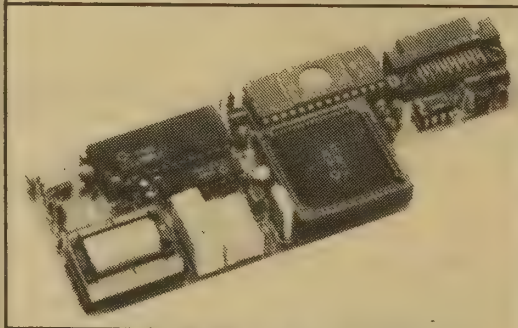
9600 BPS Modem From Prometheus

Prometheus Products has announced its new 9600 baud external modem, the ProModem 9600 Plus. Using MNP-5, the ProModem 9600 Plus ensures error-free communications and throughputs up to 19,200 baud. The 9600 Plus follows CCITT V.32 standards, allowing it to communicate with a variety of other V.32 compatible modems. This device has many advanced features that make it suitable for many different applications. A front panel answer/originate switch allows for simple transfer from voice to data calls. One-number call-back security prevents unauthorized access to a system. The 9600 Plus operates at 9600, 4800, 2400, and 1200 baud. Being CCITT V.32/V.22bis/V.22 and Bell 212A compatible means the 9600 Plus can communicate with 1200, 2400, or 9600 bps modems in the US or worldwide. ($995) Prometheus Products, Inc., 7225 SW Bonita Rd., Tigard, OR 97223. (503)624-0571.

LAPTOP MHz MODEMS

For Toshiba, NEC, Zenith

TOSHIBA



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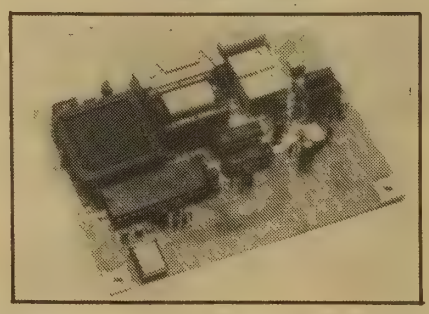

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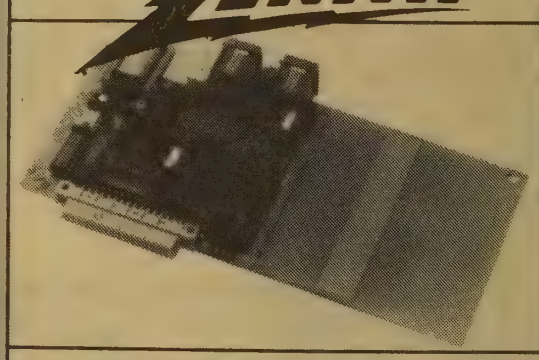
ZENITH



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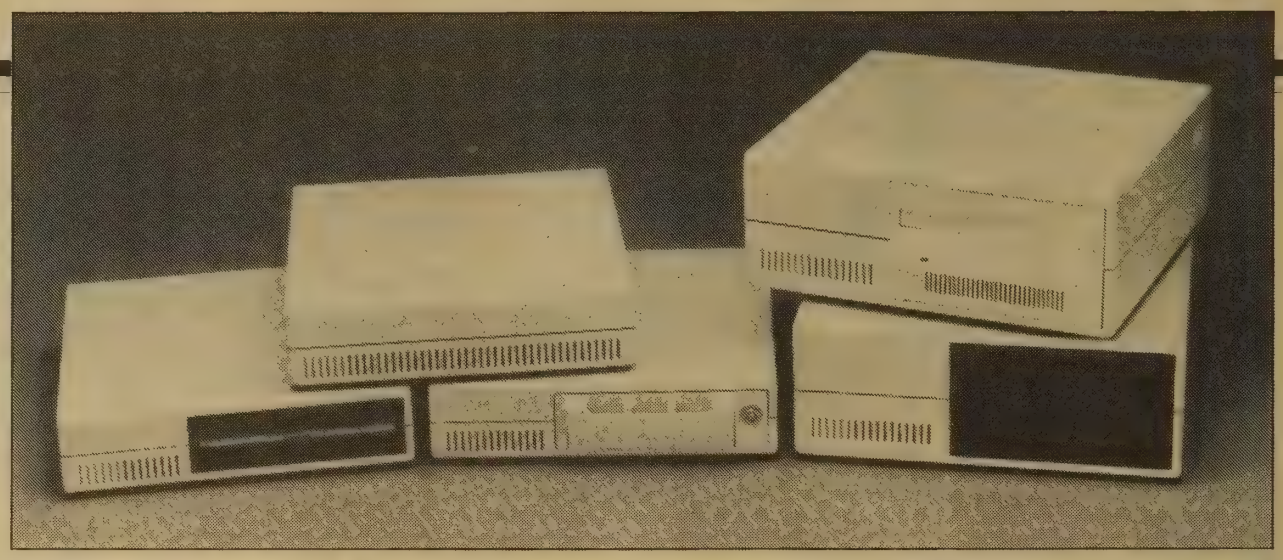
PC STORAGE BUYERS GUIDE

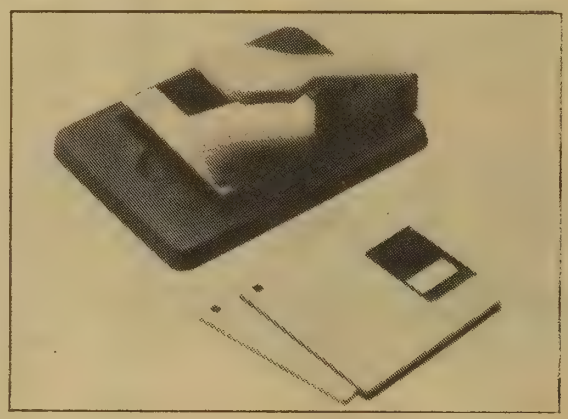


Drive Enclosures For PC And Mac Include SCSI Host Adaptor

Connector Resources Unlimited has announced a series of enclosures for the Macintosh and PC compatibles with SCSI host adaptors. They enable the user to add fast and versatile storage to any SCSI bus in an external, portable configuration. Cartridge tape drives, CD-ROMs, magneto-optical drives, and many other devices can be quickly and easily mounted both separately and in combination in the CRU enclosures. The enclosures are available in two basic styles: half-height and full-height. The half-height enclosure will accept either 31/2 inch or 51/4 inch drives, and the full-height unit will accept either a 51/4 inch full-height drive or two 51/4 inch half-height drives. An external BCD switch provides easy selection of the SCSI address. Both styles are also available with a standard cut-out to accept devices requiring front panel access. CRU, Incorporated, 753 Ames Avenue, Milpitas, CA 95035. (408)942-9077.

Portable CD-ROM Comes With Battery Pack

The Porta-Drive from Custom Design Technology, Inc. is a small, light-weight CD-ROM drive for portable and stationary PC and Macintosh computers. Industry standard media and cartridge of this Toshiba-made drive provide universal hardware compatibility. The massive 600 Mb storage of the Porta-Drive allows instant access to large databases such as legal and medical libraries, parts catalogs, and marketing data. A SCSI interface allows seven drives to be daisy-chained or linked. ($895) CD Technology, Inc., 780 Montague Expressway, Suite 407, San Jose, CA 95131. (408)432-8698.

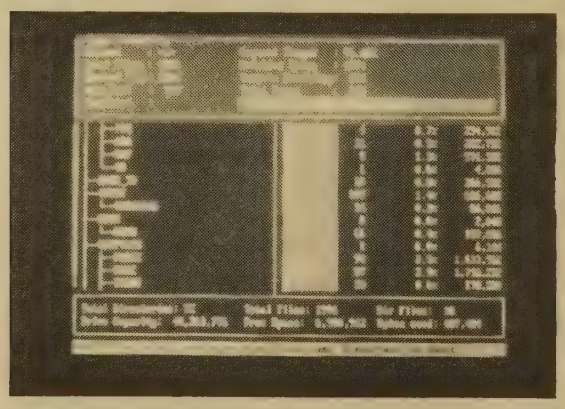


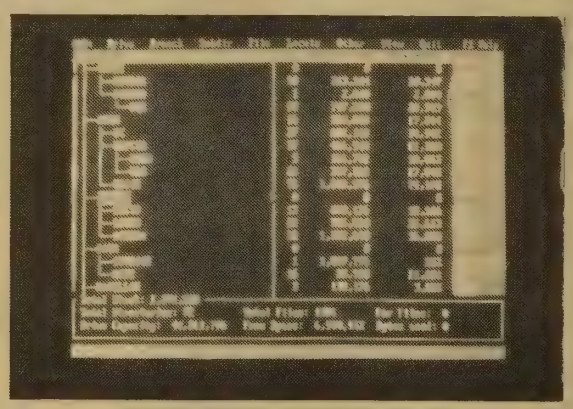
Double Your Disk Storage With DoubleDisk Converter

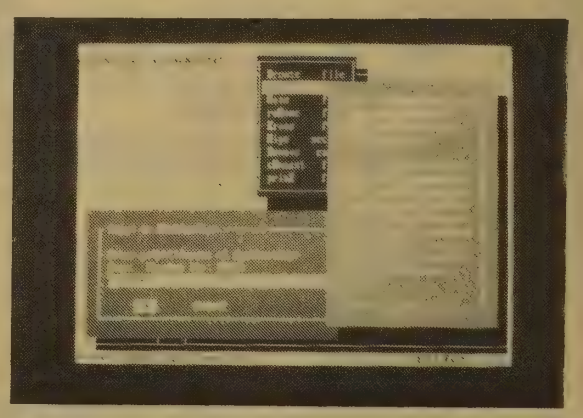
DoubleDisk Converter is a precision mechanical punch that allows users to format and run inexpensive 720 K 31/2 inchfloppy disks in 1.44 Mb disk drives. DoubleDisk comes with an unconditional one-year guarantee to exchange any converted 720 K disk which does not format and run at 1.44 Mb with a replacement 1.44 Mb disk. High density 1.44 Mb disks, which are three to four times the price of 720 K disks, are used in most PS/2 systems as well as many 286 and 386 AT-compatibles and portables, Apple's SuperDrive, and some models of Amiga PCs and Sun Microsystems' workstations. ($39.95) Biological Engineering, 2674 E. Main St., Ventura, CA 93003. 1-800-537-4226.

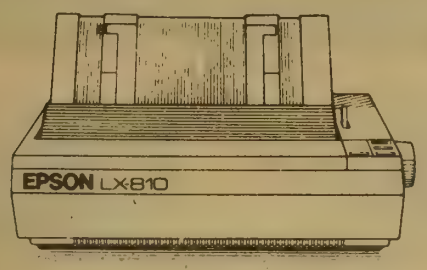
Disc Director Organizes Hard Drives

Disc Director is a new utility program by Athena Software that eliminates wasted disk space by finding unused duplicate files, empty and inefficient directories, and orphaned files. This utility is designed to aid the user in analyzing, planning, and implementing a strategy of hard disk reorganization. Completely menu-driven by easy to access pull-down menus, *Disc Director* is fully integrated with on-line, context-sensitive help. A concept unique to *Disc Director* is the idea of comments. The user may attach comments to directories, files, and even drives. Comments can be 78 characters long and can be attached in moments. ($79) Athena Software, 663 West Aspen Way, Louisville, CO 80027. (303)665-9569.









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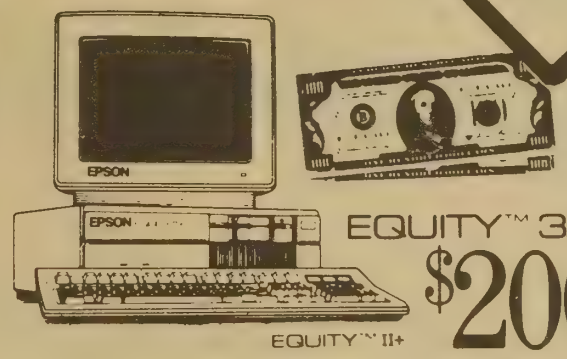

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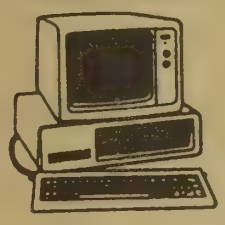

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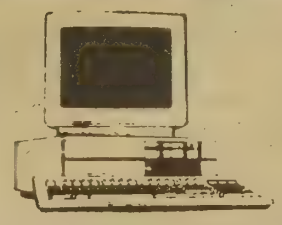

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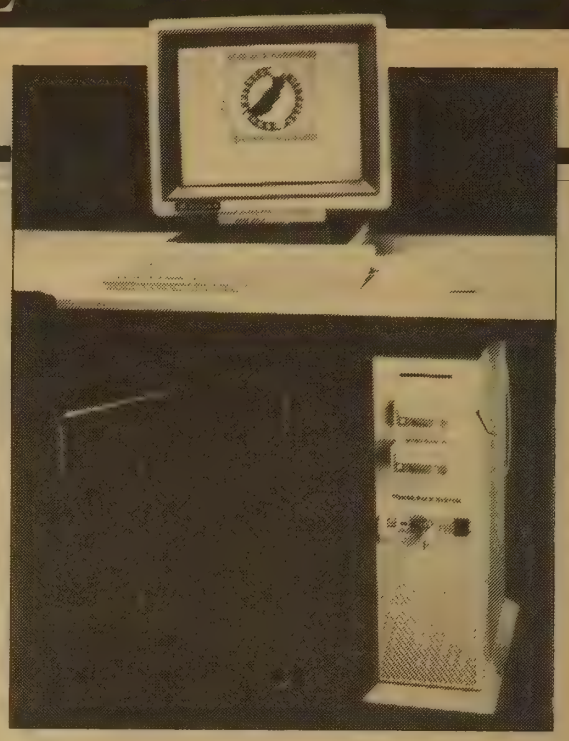

Portable CD-ROM From NEC

NEC Home Electronics has introduced the Intersect CDR-35 reader, one of the first fullfunction CD-ROM readers that can be operated as a portable unit. The Intersect is a compact, affordable CD-ROM solution for high-volume text and high-quality image access and retrieval. The CDR-35 is small enough to be carried in a briefcase or laptop computer carrying case and it can operate from an AC adapter or an optional battery pack. In its portable mode with the battery pack, the Intersect reader weighs only 3 lbs. Interface kits are available to connect the Intersect CDR-35 reader to most major computer platforms including the XT/AT, PS/2, Macintosh, and NEC's MultiSpeed, ProSpeed 286, ProSpeed 386, and UltraLite portable computers. ($599; 199 or 99 for adapter) NEC Home Electronics, 1255 Michael Dr., Wood Dale, IL 60191. (312)860-9500.

Disk Pack Provides Removable Mass Storage

If you would like to store from 42 to 170 Mb of data in a small, safe, and transportable box, you may be interested in the Disk Pack from IEF. One Disk Pack does the job of one hundred diskettes, ten times faster, and with less trouble. Access time is 18 ms (12 with optional RAM cache). Units weigh only 2.4 lbs and are shock-resistant to 10 g operating and 50 g non-operating. Disk Packs plug into IEF's Tower Pack Systems for DOS or Macintosh machines. Tower Macintosh II and Tower 386 are available in various configurations offering one or two 51/4 inch or 31/2 inch, 360 K or 1.2 Mb, 760 K or 1.44 Mb diskette drives. Systems come complete with one or two integrated Disk Packs and a control panel with lock, switches, and indicators. French Technology Press Office, 401 N. Michigan Ave., Suite 601, Chicago, IL 60611. (312)222-1235.

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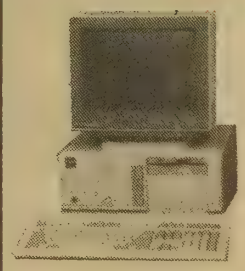

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- Hard & Floppy (MFM) Controller
- 16 Bit VGA Card
- 14″ High Resolution VGA Monitor
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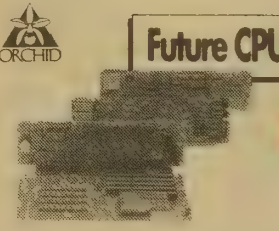

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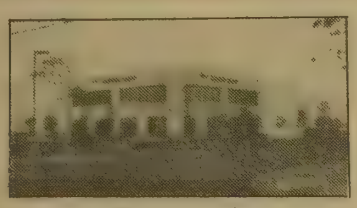

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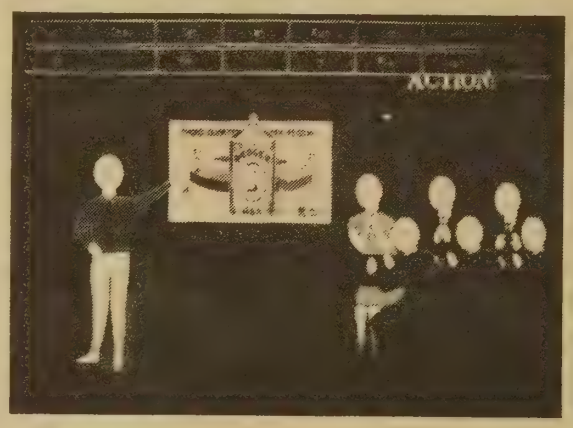
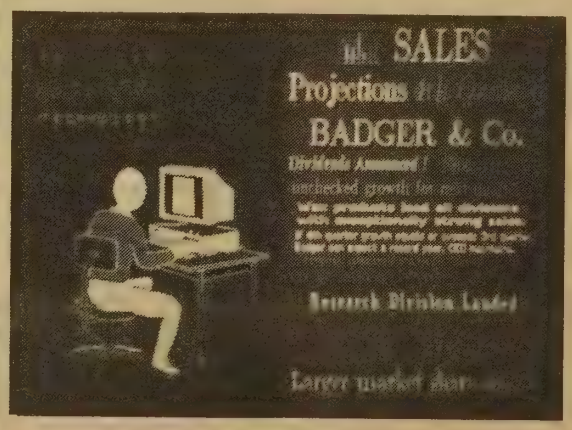
LCD Panel Projects Color

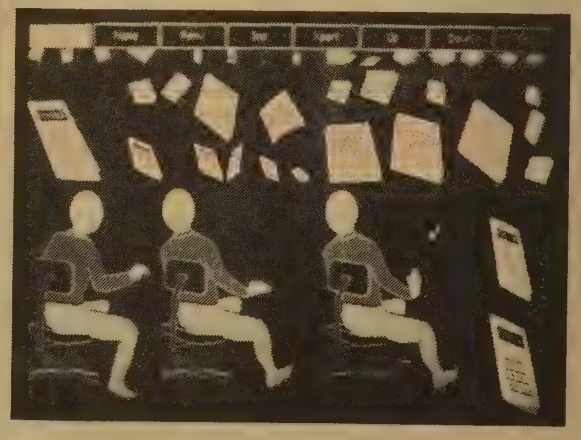
The MagniView 480 is an easy-to-use liquid crystal display panel allowing crisp, vivid color projection of high-resolution VGA computer data. The MagniView functions as an electronic transparency, allowing monitor data to be projected onto any large screen. Engineered to provide easy computer to computer mobility, it is compatible with the PS/2 as well as the PC/XT/AT and 100 percent compatibles; all major video standards including VGA, EGA, and CGA; all Apple Macintosh computers including the Mac II; and AT&T/Olivetti computers. Ideal for use in sales and financial presentations, educational and training programs, computer instruction, and other applications, the MagniView 480 can project up to 16 shades of color simultaneously. Designed to allow quick, simple creation of effective presentation material, the MagniView 480 includes IBM-compatible *Presentation Partner* software. This menu-driven application captures screen displays from any application software and enables users to manipulate files, arrange information, create images, and make unique "slide show" presentations. Dukane Corporation, 2900 Dukane Drive, St. Charles, IL 60174. (312)584-2300.



IMPEL Makes Moving Pictures On The PC

IMPEL is a new application that makes moving pictures on the PC/XT/AT, PS/2, and compatible computers. It can be used for animated business presentations, product demonstrations, computer-based training, and many other applications involving moving displays of personal computer graphics and text. The *IMPEL* animation system uses mouse-driven menus and intuitive pick and place graphic positioning. Features include a drawing package, proportionally spaced text fonts, film editing and splicing, depth, simultaneous movement of different pictures, and a film compiler to speed up finished films. Pictures can be created and revised with *IMPEL*'s own drawing facility, or can be imported in a variety of picture file formats such as PC Paintbrush, .PCX, Deluxe Paint .LBM, and Dr. Halo.CUT. ($295) Eastridge Technology, 37 Murray St., New York, NY 10007. (212)267-7980.





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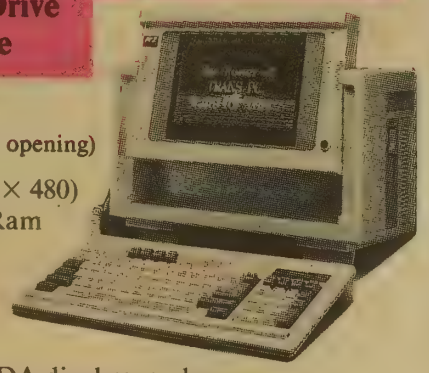

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- FD/HD Controller
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VGA Model	**$2995**
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- AT FD/HD Controller (1:1)
- 1.44 MB Floppy Drive
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- 102 Keys Keyboard
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- EGA LCD DISPLAY
- 286 12 MHz w/512K Ram, up to 4MB (EMS 4.0)
- 1.2 MB Floppy Drive
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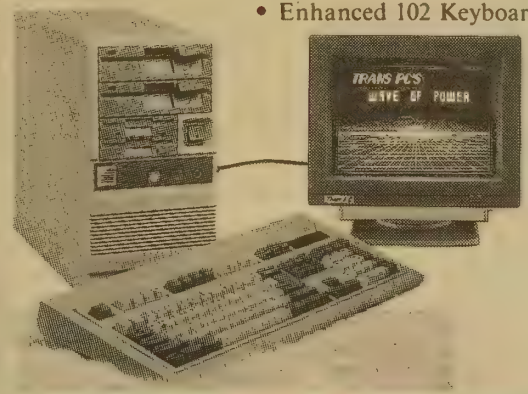

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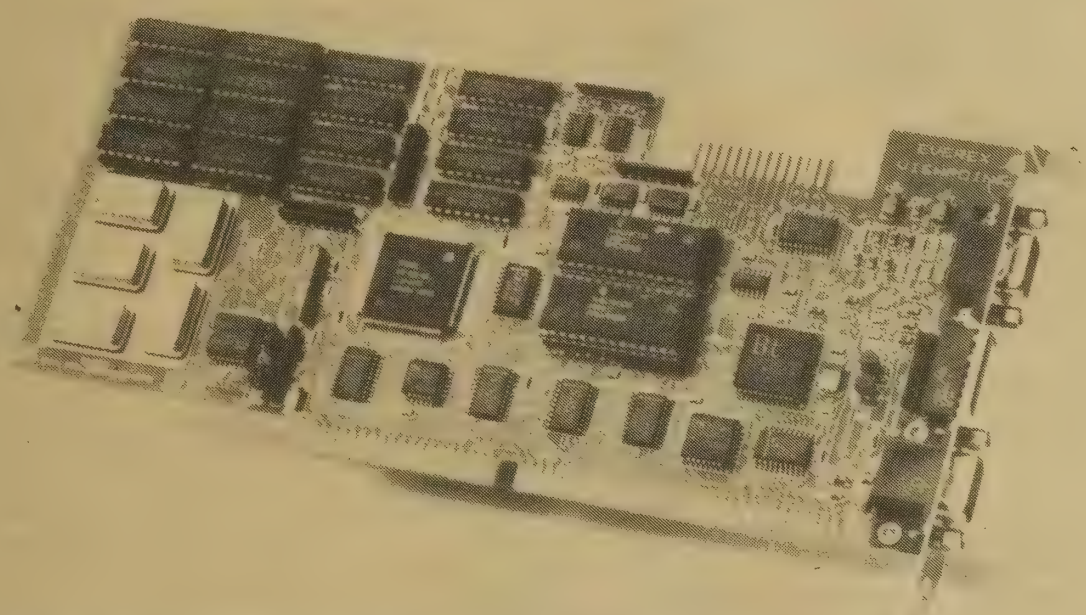
Affordable Desktop Publishing With Finesse

Finesse is a new desktop publishing package from Logitech designed to bring the high-quality output of expensive desktop publishing programs into a price range that's affordable for both business and home users. It is available for PC/XT/AT, PS/2, and compatible computers. *Finesse* includes Bitstream *Fontware* which provides fonts included in many high-end packages. This DTP application uses a combination of pull-down menus, dialog boxes, and quick-keys for document creation. A number of page templates are also included. Text can be imported from Microsoft *Word*, *WordPerfect*, and *WordStar*, as well as ASCII files. A wide range of layout tools are included, such as: kerning and leading, hyphenation, automatic text wrap-around, cut and paste, search and replace, variable gutter and column widths, on-screen rulers, fill patterns, line and frame styles, and others. ($179) Logitech Inc., 6505 Kaiser Drive, Fremont, CA 94555. (415)795-8500.



16-bit VGA Board Includes Drivers For OS/2 PM

The Viewpoint VGA Board from Everex is shipped with OS/2 Presentation Manager drivers for better VGA resolution. The card supports 1024 x 768 resolution and is available with 512 K optional display RAM. The Viewpoint can display 256 colors out of a palette of 262,144. Standard 256 K of display RAM is expandable to 512 K for greater color selection at higher resolutions. With the 512 K option, the Viewpoint features expanded resolutions of 1024 x 768 with 16 colors, and 800 x 600 and 640 x 480 with 256 colors. The board supports standard TTL and analog monitors, including multifrequency, PS/2 fixed frequency, EGA, CGA, and monochrome. It has both 9-pin and 15-pin connectors as well as an IBM-compatible auxiliary video connector for complete IBM display adapter compatibility. ($449/599) Everex, 48431 Milmont Drive., Fremont, CA 94538. (415)498-1111.

PageBuilder Provides Business Graphics, Illustrations

PageBuilder 2.0 is a graphics-based desktop publishing/presentation software program for XT, AT, and 386 computers. *PageBuilder* integrates a variety of text, graphics, and image features in a single package, including word processing, line graph, bar graph, and pie chart generation, extensive vector graphics, and a library of over 200 illustrations which can be scaled, rotated, or combined with text for dramatic presentations. The program also includes image scanning for logos and photos with support for the Canon IX-12 scanners. Sixteen Compugraphic fonts are included, and *PageBuilder* provides a slide show feature which enables a user to prepare pages of color text and graphics with variable view time delay for presentations. An extensive vector graphics editor is included which provides the user with the capability of last minute editing of *AutoCAD* DXF drawing files while in *PageBuilder*. All of the application's features are accessible through pull-down menus. ($300) CSI Publishing Inc., 13721A Roswell Ave., Chino Hills, CA 91710. (714)628-7873.

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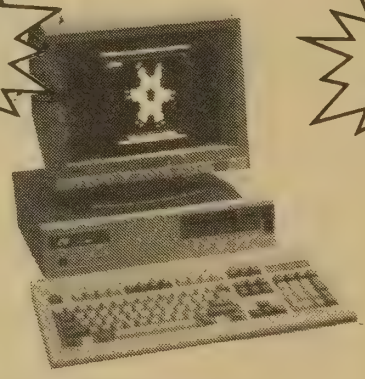

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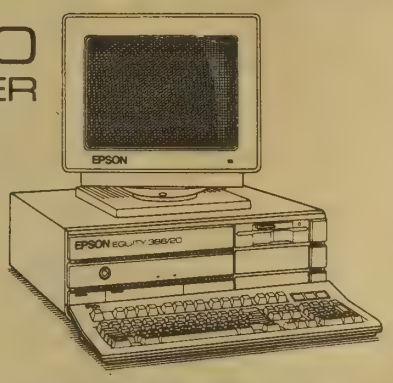

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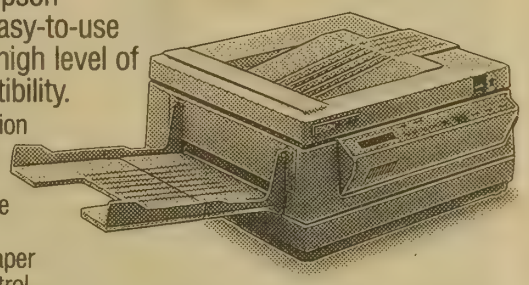
- Prints superbly on a variety of paper
- Easy-to-use SelecType front control panel
- Expandable memory up to 4.5MB
- Epson's one year limited warranty



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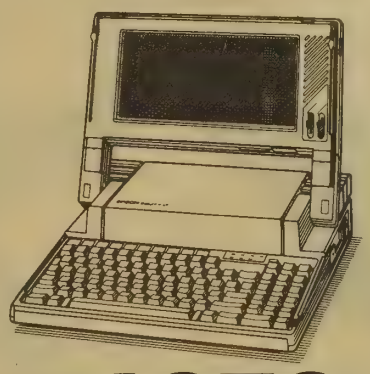
- One year limited warranty



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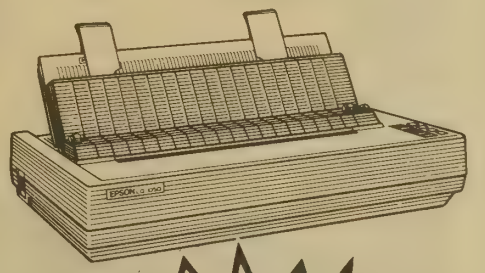
- In draft mode or Letter Quality mode, the LQ-1050 runs at a surprisingly quiet 55dB noise level



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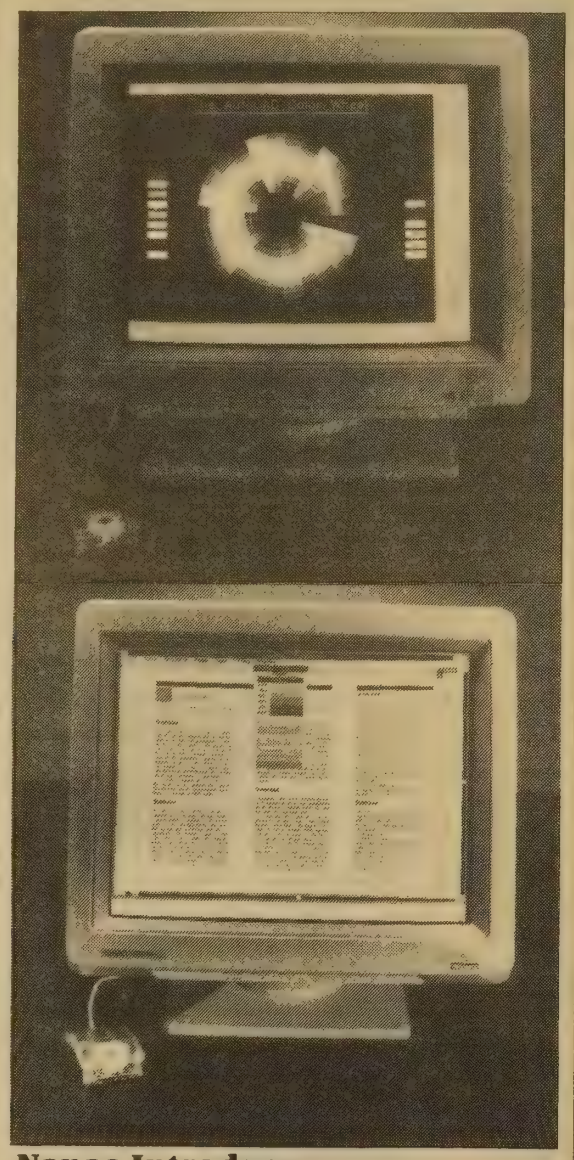
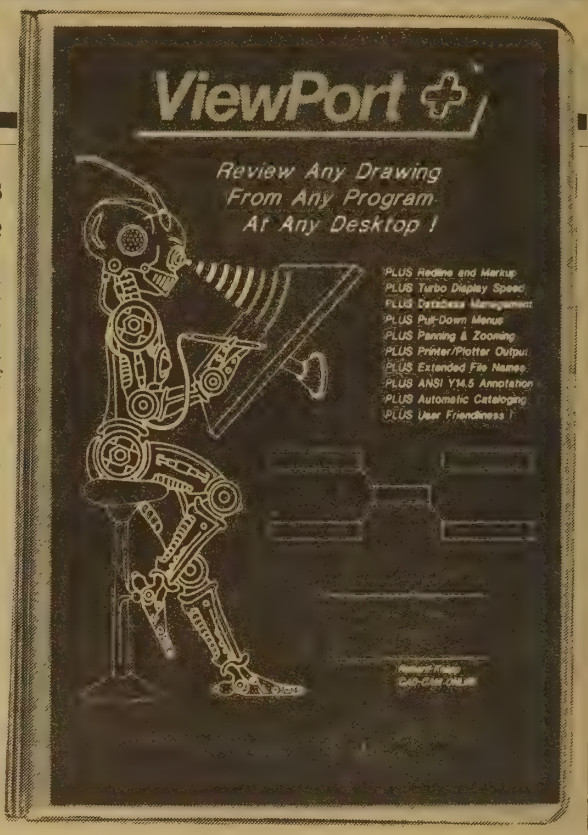


Nanao Introduces Two DTP Monitors

Nanao has introduced two new monitors specifically for DTP, CAD/CAM, and other applications that require large, high-resolution displays. The FlexScan Model 6300 is a 21-inch grey-scale multiscanning monitor that displays side-by-side paper-white images of two complete pages in super-high resolutions up to 1664 x 1200—a resolution three times better than the VGA standard of IBM PS/2, PC/XT/AT, and compatible microcomputers. The second monitor, the FlexScan Model 9400, is a 20-inch multiscanning color monitor that displays resolutions up to 1280 x 1024—higher than extended VGA, insuring that the monitor will be compatible with future evolving display standards. The 9400 also supports the new 24-bit "true color" graphics display standard, which offers users a palette of 16.7 million colors and resolutions as high as 1024 x 768 on the Apple Macintosh II. Both monitors feature multiscanning capabilities that ensure the superior resolutions and the compatibility with IBM and Apple microcomputers. ($1989/3799) Nanao USA Corporation, 23510 Telo Ave., Suite 5, Torrance, CA 90505.

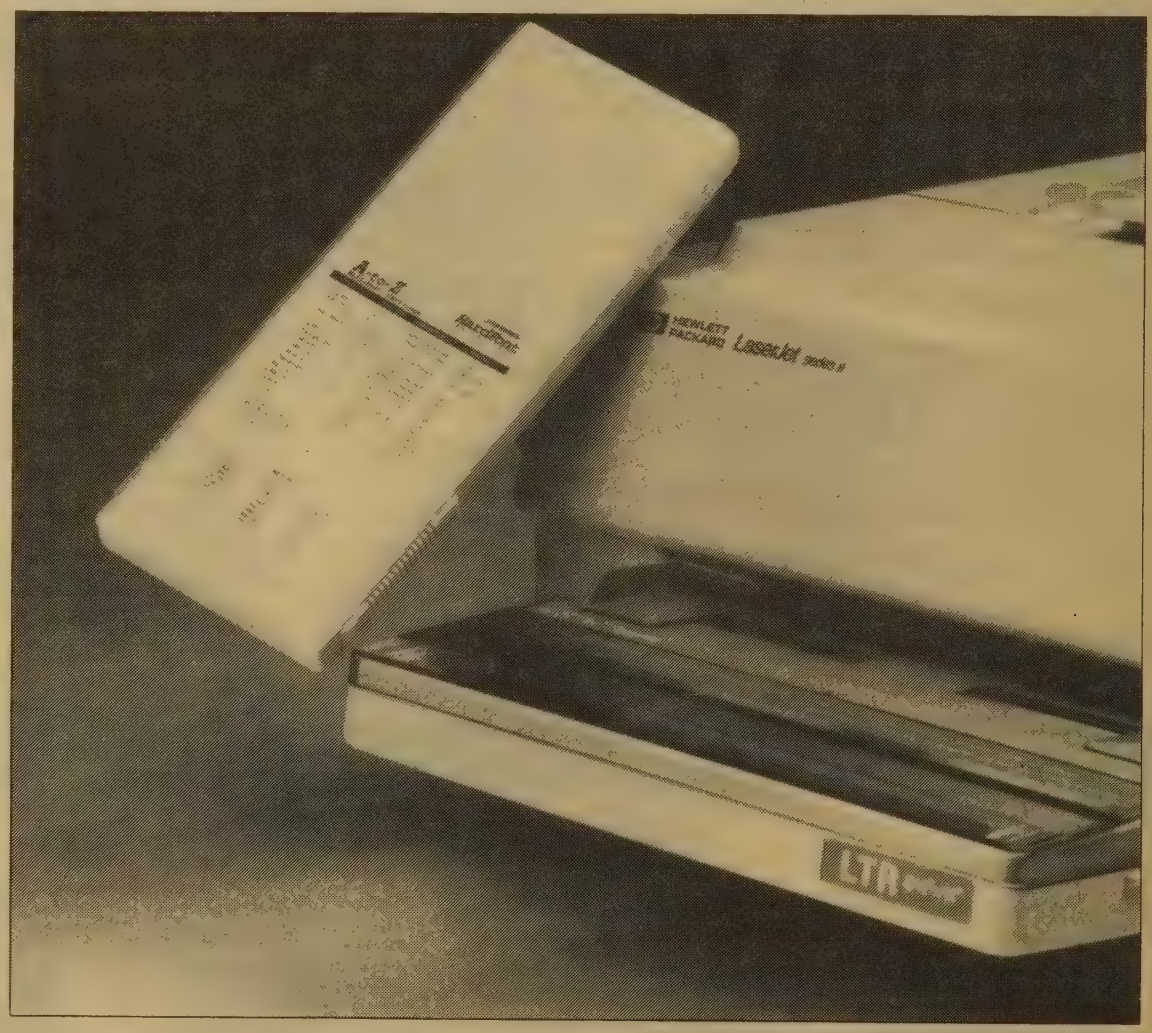
ViewPort+ Quickly Opens Any CAD/CAM File

ViewPort+ is new software from CADMAN Corp. that displays drawings created by CAD/CAM application programs approximately 10 times faster than the originating software. Typically a full-screen drawing consisting of thousands of vectors can be displayed by *ViewPort+* in less than two seconds on an AT-class PC. The application can be used by shop floor personnel to view assembly drawing, and by engineering personnel to check drawings. With *ViewPort+* users can zoom in and pan around the displayed drawing, create notes and comments, make hard copies, and plot them on large format plotters. No actual part of the drawing may be altered. To generate its extremely fast view-only display files, *ViewPort+* translates each HPGL plotfile into a highly efficient, compressed binary file format. ($595) CADMAN, 19700 S. Vermont Ave., #100, Torrance, CA 90502. (213)515-1289.



Everex Provides Fonts From A-To-Z

A-to-Z HardFont Cartridge is a comprehensive multifont cartridge that contains the functional equivalents of all 231 fonts in Hewlett-Packard's set of font cartridges. Fonts include Courier, Gothic, and Prestige Elite, as well as fonts based on Linotype's Times Roman and Helvetica typographic masters. The A-to-Z is fully compatible with the entire family of H-P LaserJet printers including the LaserJet IID. The fonts are accessed directly by the printer without downloading, so the printer's memory is used for saving documents rather than font outlines. ($695) Everex, 48431 Milmont Drive., Fremont, CA 94538. (415)498-1111.



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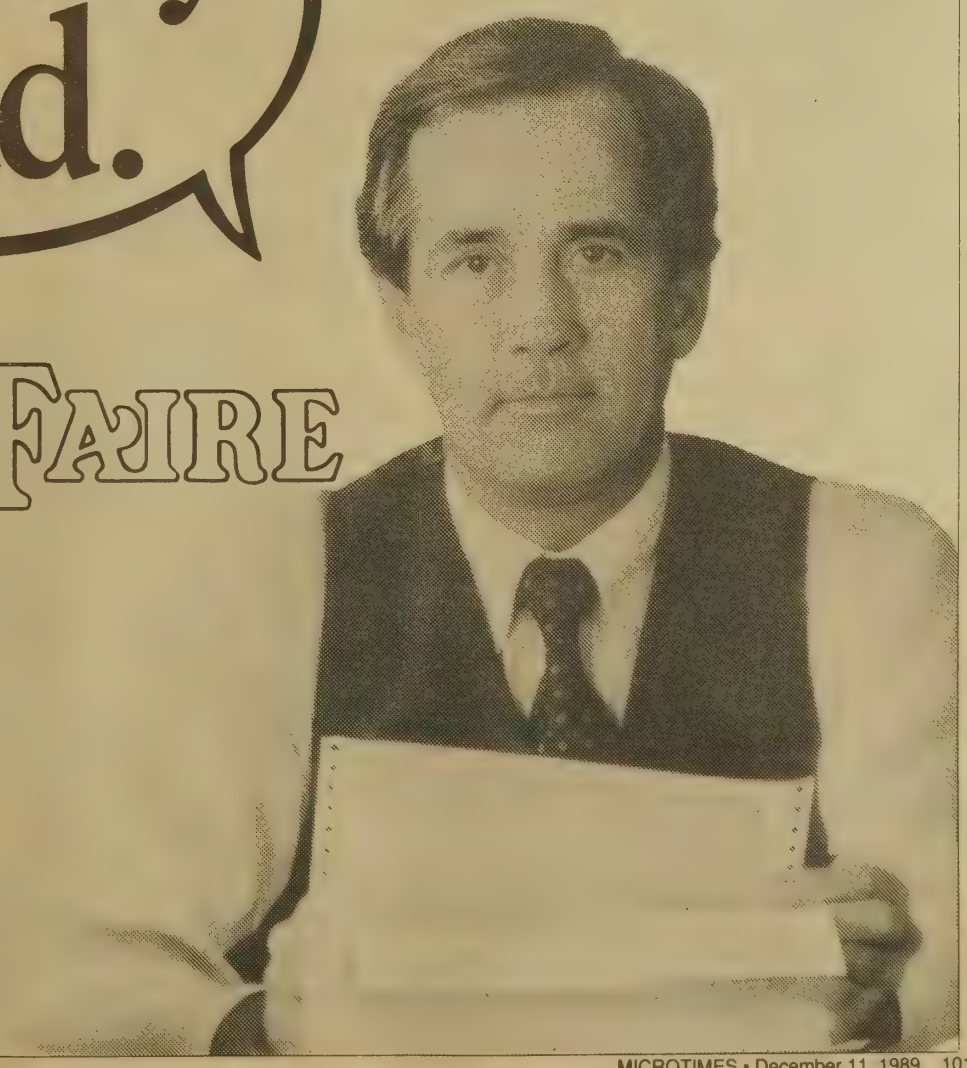

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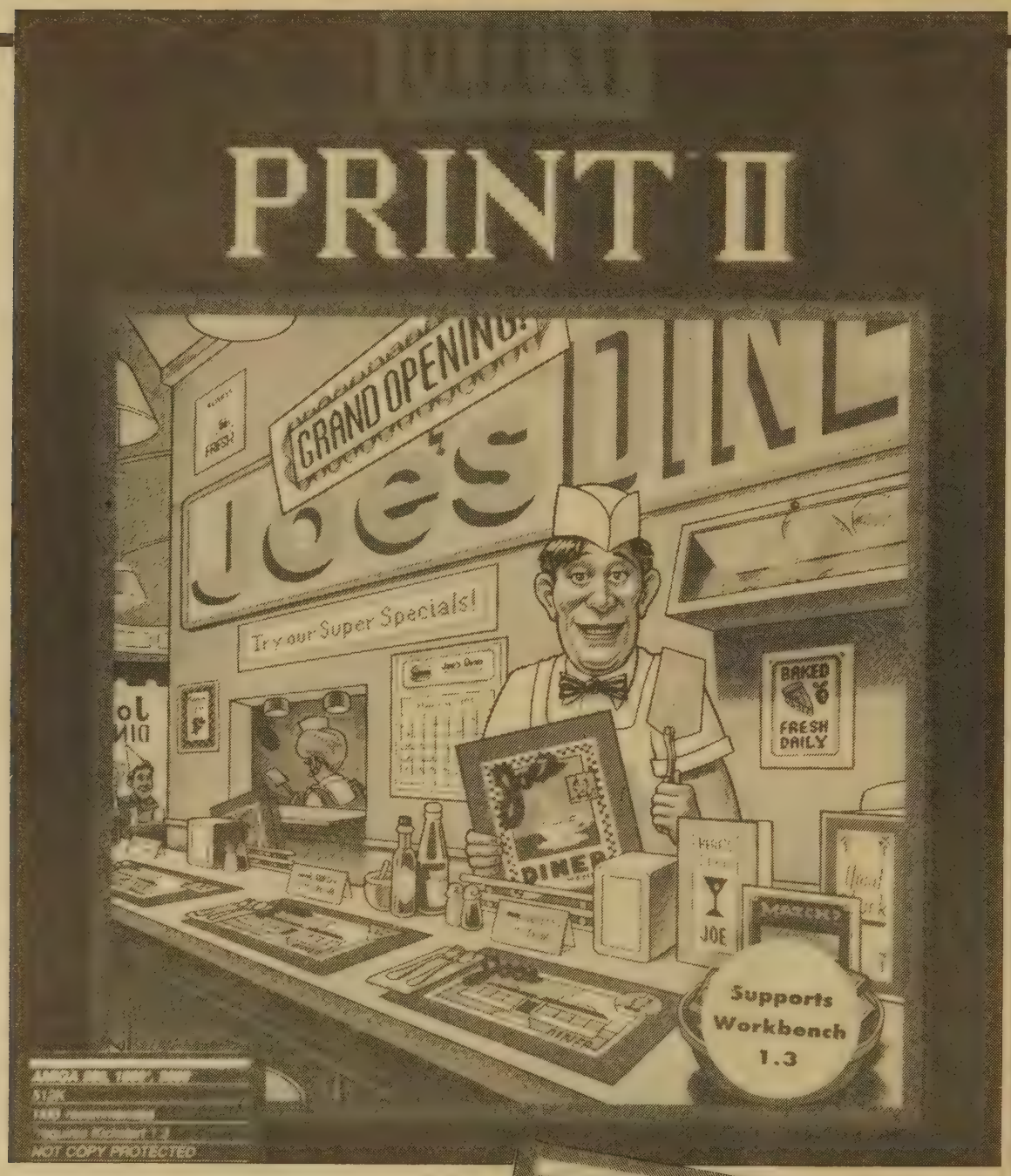
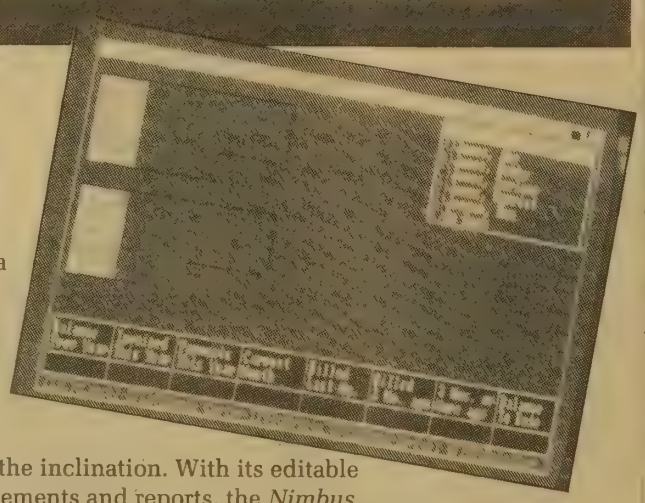
AMIGA BUYERS GUIDE



DeluxePrint II 1.1 Supports Workbench 1.3

DeluxePrint II 1.1, a personal creativity program for producing and printing a variety of messages for use in the office, home or school, now supports Workbench 1.3. *DeluxePrint* makes the creation of practical printouts quick and easy. It contains seven predesigned formats including signs, greeting cards, banners, letterhead, calendars, 4-panel signs, and labels. The program also includes over 150 multi-colored graphics and borders, and a variety of standard Amiga and custom fonts. *DeluxePrint* provides full control over every design by allowing the user to replicate, move, resize, flip, and rotate text and graphics at will, and by providing a full-featured graphics editor for creating clip-art or customized graphics. In addition, *DeluxePrint II* can import graphics from other compatible programs, and support the growing library of fonts for the Amiga. ($79.95) Electronic Arts, 1820 Gateway Drive, San Mateo, CA 94404.



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Award-winning Music Program Ported To Amiga

Master Tracks Pro is a powerful, professional sequencer program based on the award-winning version for the Macintosh and Atari ST computers. It shares the same features and user interface as the Macintosh and Atari ST versions, such as 64 recording tracks, a Conductor track for continuous tempo control throughout a composition, automated punch-in and punch-out recording, and tape recorder-style transport controls (play, record, stop, pause, fast forward, rewind). Step-editing and cut/copy/paste song editing are complemented by the Amiga's color graphics. *Master Tracks Pro* also supports the MIDI File format for storage, which ensures that sequences can be shared with other sequencing programs. Anastasia Lanier, Passport Designs, Inc., 625 Miramontes St., Half Moon Bay, CA 94019. (415)726-0280.

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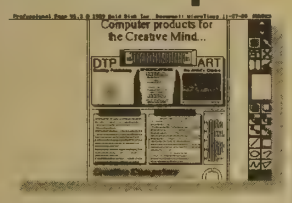

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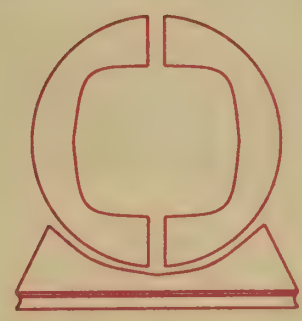

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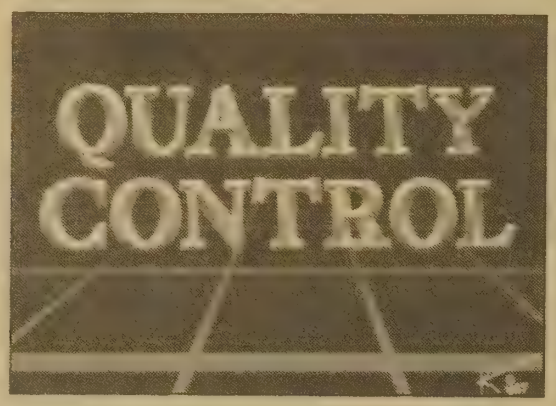
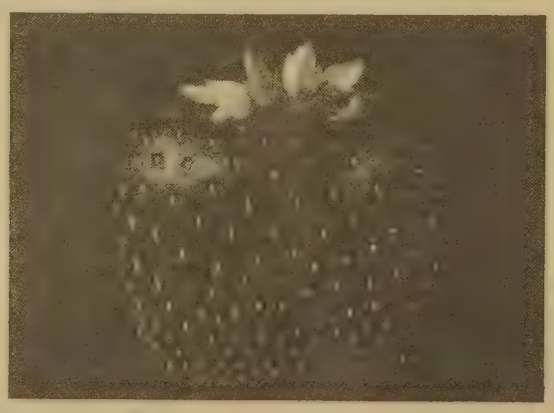


Imprint Interfaces Amiga To The Polaroid Palette Film Recorder

American Liquid Light's *Imprint* generates slides, negatives, transparencies, or instant prints—with an optional film back, the system can even produce 35 mm motion picture films. Designed to develop visuals from HAM, IFF, and DigiView's RGB-IFF files, *Imprint* can expose images composed in over 16 million colors. A number of film types may be used with the system, including Polachrome, 669/691/665, Polapan, Polagraph, Type 339, Ektachrome, Agfachrome, Fujichrome, and Presentation chrome. *Imprint* software controls all the camera functions. Users can "stamp" their images with text, sequential numbers, and the time and date. The batch processing mode supports continuous exposure of up to 36 images, unattended. The Snapshot utility allows the user to expose images directly from an application with a simple sequence of keyboard commands. Snapshot supports Hold and Modify, so users can make exposures from Microillusion's *Photon Paint* or DigiView's *Digi-Paint*, for example, without having to first save the file to disk. ($495) American Liquid Light, Inc., 2301 West 205th St., Torrance, CA 90501. (213)618-0274.



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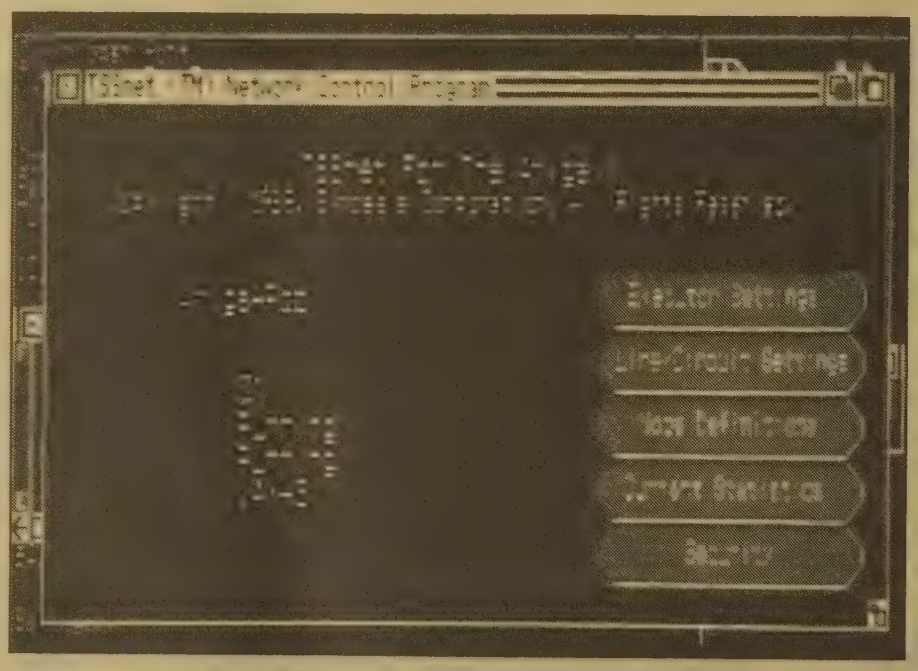
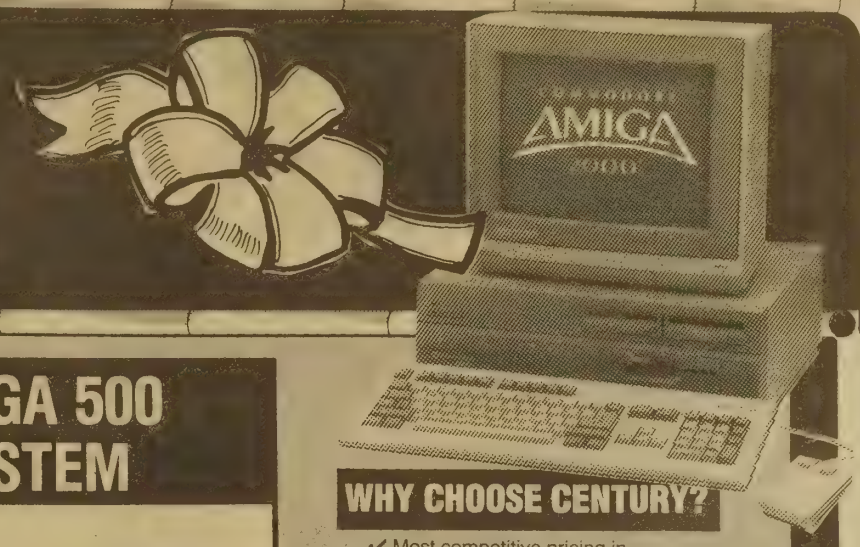
In an effort to bring the game enthusiast more realism than the joystick can provide, The Maxximum Company has produced a flight control yoke with which to play flight-related games. The MAXX Yoke is a joystick-type device that looks and performs like the control yoke found in fixed-wing aircraft. It is designed for light aircraft simulators and the better known jet fighter packages for Amiga, Atari, Apple, and PC compatible machines. With the MAXX Yoke, you can thread the needle through hostile air space or attempt a difficult approach at Meigs Field. ($99.95) The Maxximum Company, 205 S. 20th St., Nampa, ID 83651. (208)465-4606.



TSSnet Puts Amiga In Touch With DEC

TSSnet provides full access to DECnet networks for the Commodore Amiga. Amigas running *TSSnet* become Phase IV end nodes in a DECnet network that can consist of over 64 thousand different computers running a wide variety of operating systems. *TSSnet* is a complete Amiga implementation of *TSSnet*, originally developed by Thursby Software Systems. *TSSnet* will provide asynchronous DECnet communications, with a Network Control Program (NCP), Network Virtual Terminal support, and a programming interface at the Amiga device level. It will provide DECnet connectivity to users of X11 for the Amiga from GfxBase, an implementation of the X Window System for the Amiga. Bob Tolly, Syndesis, N 9353 Benson Rd., Brooklyn, WI 53521. (608)455-1422.

AMIGA™



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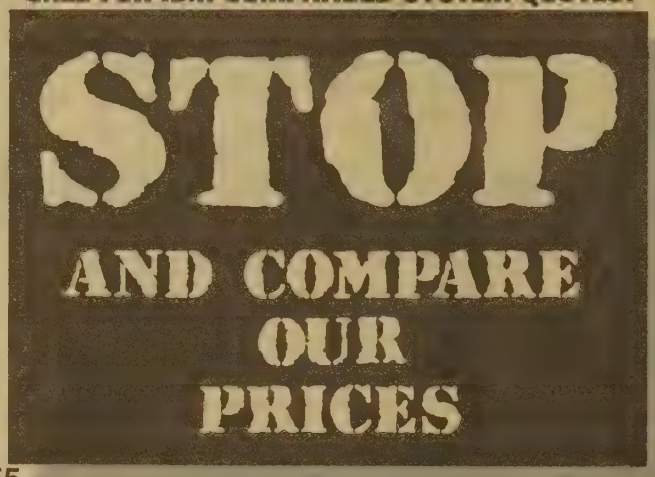

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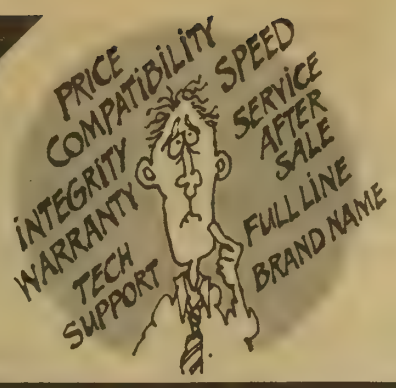

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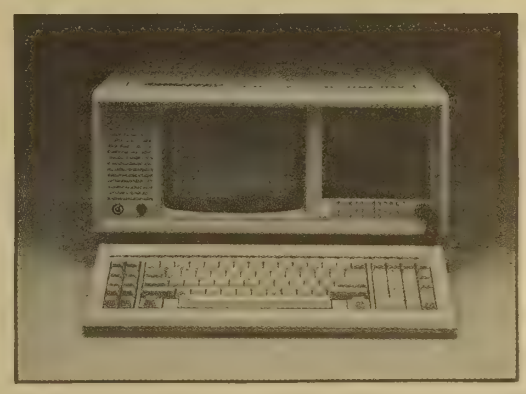

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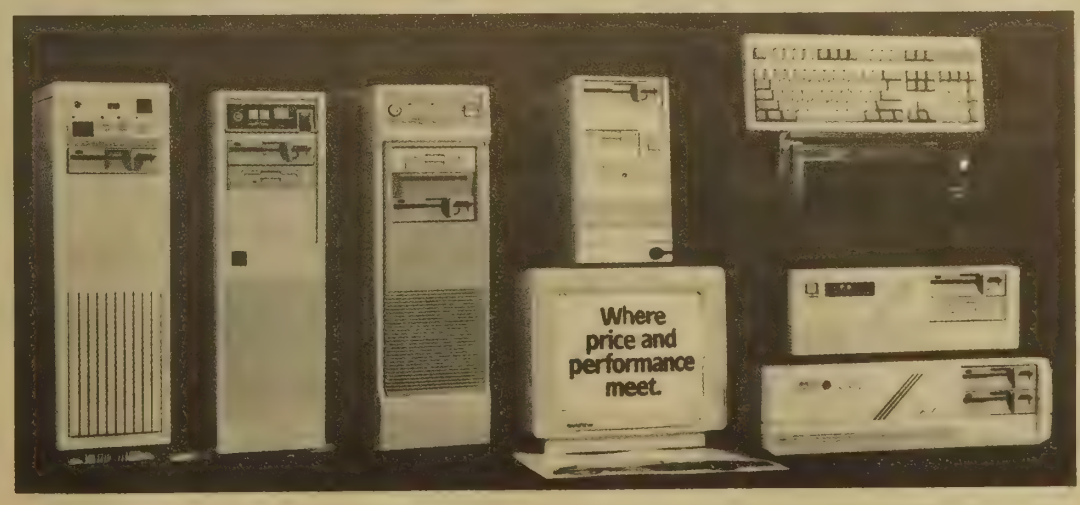

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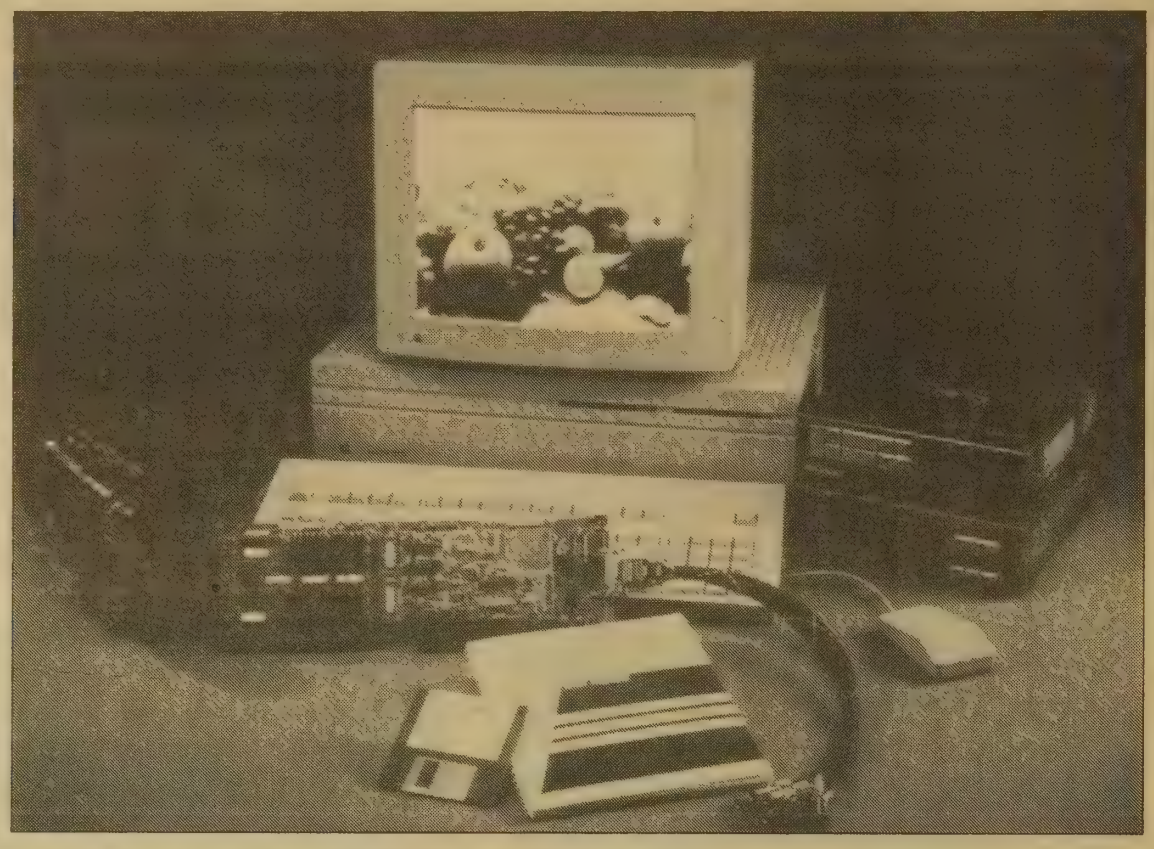

ColorCapture Board Upgraded To 32-Bit Color QuickDraw

Data Translation has upgraded its ColorCapture video board to support Apple's 32-bit QuickDraw. The board allows real-time video frame grabs, output to videotape, and true-color display in 32,000 colors with Macintosh II, IIx, and IIcx computers. ColorCapture captures 640 x 480 square-pixel images and displays them with up to 32,768 colors. The display produced is high-definition with continuous real-life color tones. ColorCapture also doubles as a 16-bit display and allows video graphics to be output as both RGB and NTSC composite video. The board genlocks to the incoming video signal. ($2995) Data Translation, 100 Locke Drive, Marlboro, MA 01752-1192. (508)481-8620.

Springboard Ships Publisher II

Springboard Software has started shipping its upgrade to *Springboard Publisher*, a low-cost alternative to more powerful desktop publishing applications. The program provides everything required to create professional-looking pages, including page layout, graphics, text editing, and special effects. *Springboard Publisher II* is intended for small businesses, home offices, non-profit organizations, schools, and others who wish to create professional-looking communication without the heavy expense or steep learning curve of complex software. Feature enhancements over version 1 of the program include support for EPS and PICT graphics, an 80,000-word spell checker with suggestion capability, font sizes from 4 to 127 points, a functional 200 percent view, and the inclusion of special text effects from Emerald City Software's *Smart Art* desk accessory (a PostScript printer is required for *Smart Art*). ($199.95) Springboard Software, Inc., 7808 Creekridge Circle, Minneapolis, MN 55435. (612)944-3915.

Spectrum/24 From SuperMac Provides 32-bit Color

The SuperMac Spectrum/24 is a true color graphics card for the Macintosh II family that fully supports Apple's 32-bit QuickDraw. Spectrum/24 can display up to 1024 x 768 pixels in any of 16.8 million colors. With this powerful color display capability, creation and incorporation of lifelike images into desktop publishing documents, desktop color pre-press, and professional-quality image processing are now a reality. The advanced proprietary ASICs incorporated into Spectrum/24 provide a reliable, standard-sized NuBus card with advanced capabilities, like hardware pan and zoom. The Virtual Desktop incorporated into Spectrum/24 and multiple-monitor support mean that large screen true color computing is a reality—even with the AppleColor 13 inch monitor. For video production work, Spectrum/24 can convert data to NTSC RGB output compatible with industry-standard video equipment such as projection systems and video tape recorders. SuperMac Technology, 485 Portreo Ave., Sunnyvale, CA 94086. (408)245-2202.

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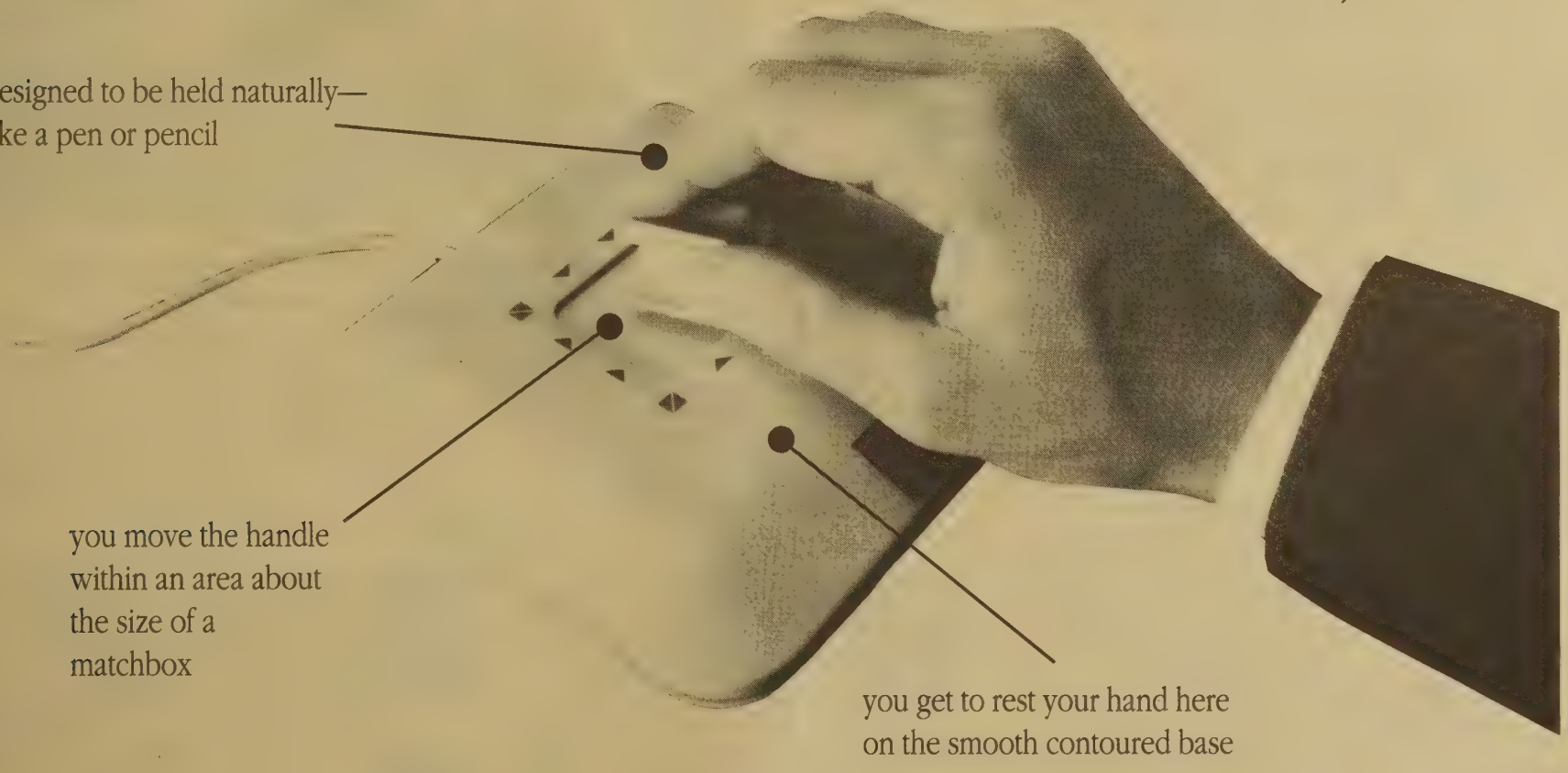
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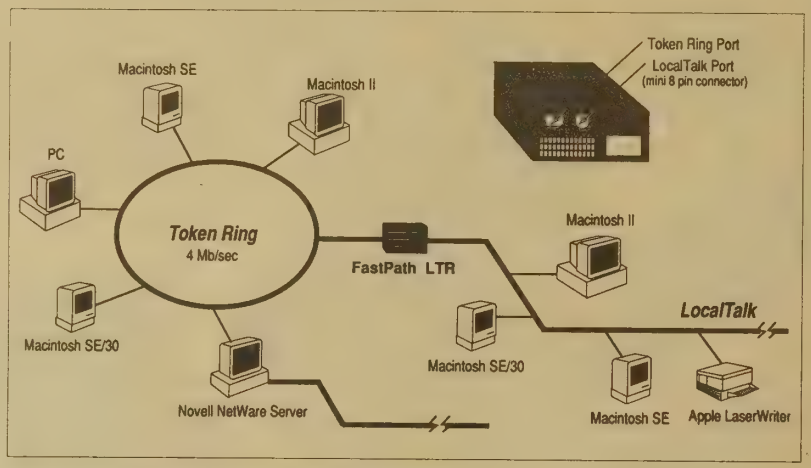
MAC LAN/MULTI-USER BUYERS GUIDE

Avatar Ships SE/30-To-Mainframe Connectivity Package

MacMainFrame SE/30 is an internal card and software communications product that provides direct connection of a Macintosh SE/30 to an IBM 3270 mainframe. MacMainFrame SE/30 allows full IBM 3278/3279 terminal emulation and file transfer under IBM's CICS, TSO, and CMS operating environments. MacMainFrame SE/30 supports the range of traditional Macintosh functions while truly emulating the IBM 3270 environment. Both Macintosh and IBM 3270 users will be comfortable using MacMainFrame SE/30. It features keyboard mapping, pull-down menus, copy and paste support, and other user-definable characteristics allowing mainframe information to be easily accessed and manipulated into local applications. MacMainFrame provides MultiFinder support that enables background file transfer capabilities. Versions of MacMainFrame are also available for Macintosh Plus, Ke, SE, and II family computers. ($995) Avatar Corporation, 65 South St., Hokpinton, MA 01748. (508)435-3000.

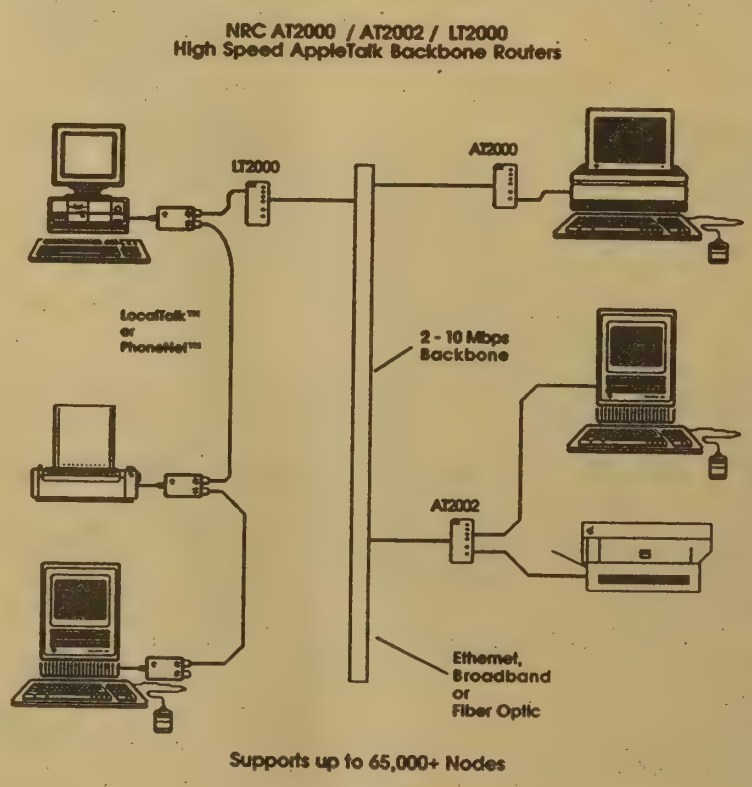


Excelan Gateway Connects AppleTalk Workgroups

Excelan's FastPath LTR is a communications gateway comprising software and hardware that links AppleTalk workgroups with networks based on the token ring topology. It supports TCP/IP and AppleTalk Phase 2 communications protocols as well as the Simple Network Management Protocol (SNMP). It can also serve as a bridge between AppleTalk networks over token-ring. Performance features include a 68000 CPU running at 10 MHz, 64 K EPROM, and 256 K RAM (expandable to 512 K). The LocalTalk side uses the Zilog 8530 chip set running at 3.6864 MHz, while the token ring side uses the Texas Instruments TMS 380 chip running at 10 MHz. The FastPath LTR, in addition to serving as an efficient connection between LocalTalk and token ring environments, also functions as an enabling technology to promote Apple-to-IBM connectivity. By providing a standard development platform, the FastPath LTR allows software publishers to write distributed applications for heterogeneous environments, including AppleTalk Phase 2. ($3495) Excelan, 2180 Fortune Drive, San Jose, CA 95131. (408)473-2300.

High-speed AppleTalk Routers For Broadband, Ethernet, And Fiber-optic Networks

Network Resources Corp. has announced the NRC Series 2000 family of high-speed AppleTalk compatible routers for broadband, Ethernet, and fiber-optic networks. The products permit large, geographically dispersed networks of Apple Macintosh computers and peripherals to be built using existing backbone networks and software. The products include the AT2000 series for connecting one AppleTalk device to the backbone network, the AT2002 series for connecting up to two AppleTalk devices, and the LT2000 series to attach a number of devices on a LocalTalk or PhoneNET local area network to the backbone. These products are aimed at major corporations and institutions that have or are adding more Macintoshes and need to network them together. The Series 2000 products are true routers, giving them significant performance advantages over products based on bridge technology. A disadvantage of bridge technology is that it slows down the system because every message travels across the entire network, regardless of its destination. Routers filter traffic so that messages addressed within a LAN do not propagate and cause delays in other parts of the network. ($999–1295) Network Resources Corporation, 2450 Autnmmnvale Drive, San Jose, CA 95131. (408)263-8100.



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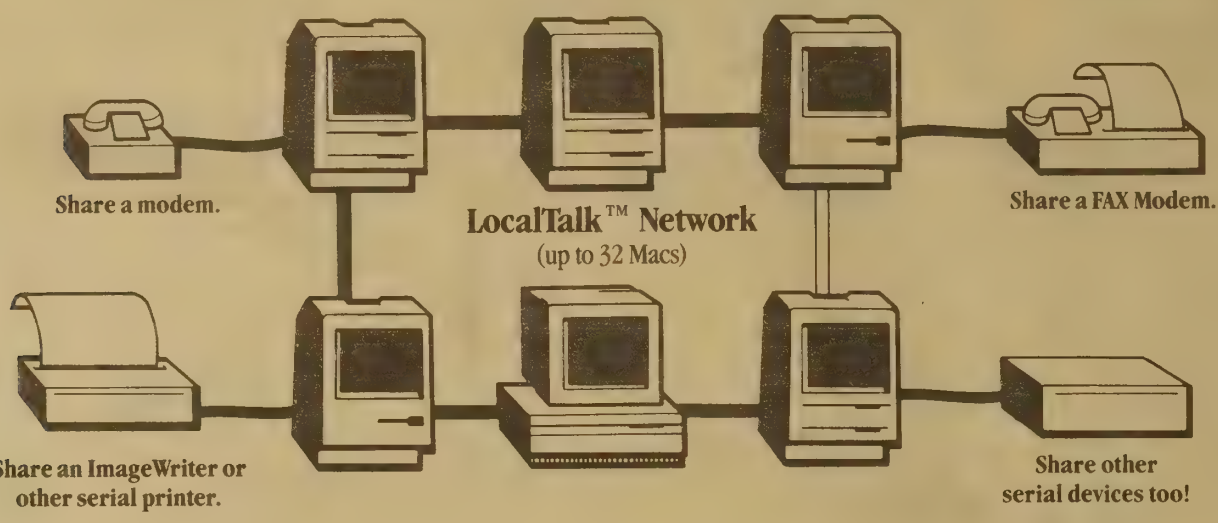
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Port Server Identifies Peripherals On A Network

SilverPlatter is a utility from La Cie which identifies serial devices hooked up to any Macintosh modem port. It defines the fax, modem, printer, or any peripheral so they can be easily shared over a remote or local area network. Using SilverPlatter eliminates the need to buy additional, expensive hardware to share devices. *SilverPlatter* is part of the *La Cie Utilities* program. This complete utility also includes SilverPlatter for remote or LAN-based hard disk sharing; SilverLining for hard disk management, partitioning, diagnostics, password protection, and automatic head parking; DiskDup+ for fast floppy duplication; and *Chatterbox* for real-time on-line communication. This entire utility package, including *SilverPlatter*, retails for $149. La Cie Ltd., 16285 SW 85th #306, Tigard, OR 97224. (503)684-0143.

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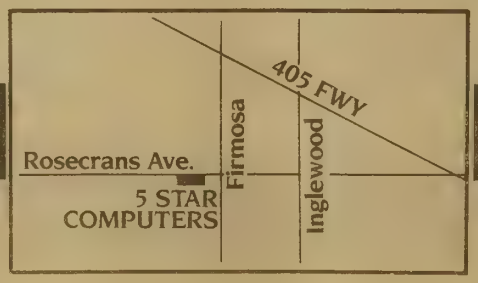

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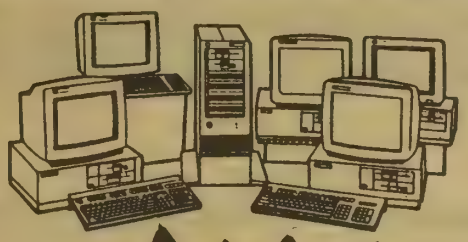

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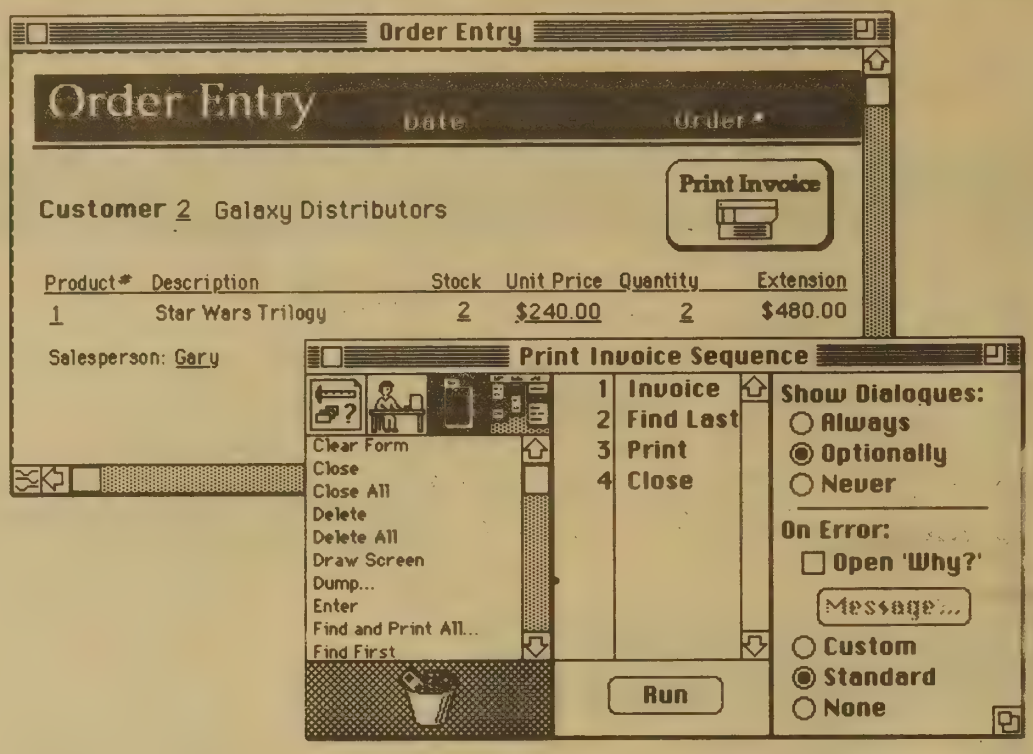
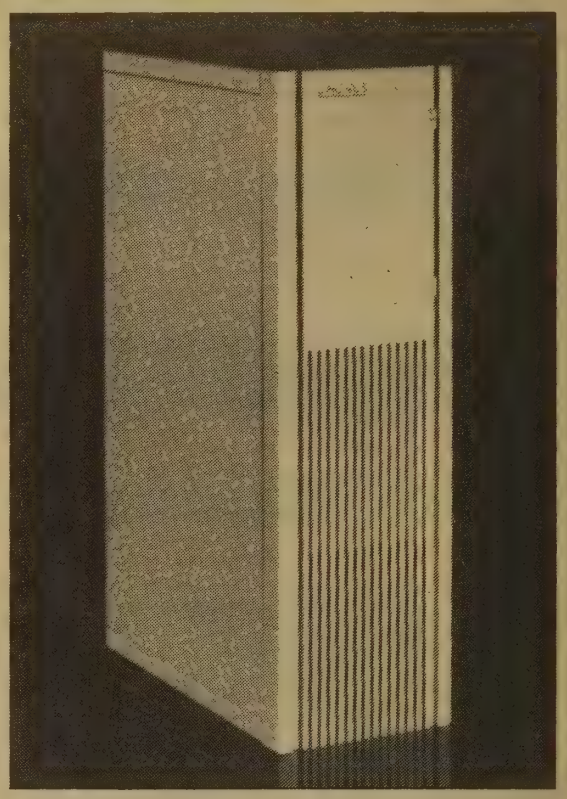


Double Helix Now More Powerful Than Ever

Odesta Corporation has released its newest upgrade to *Double Helix*, a relational database application. *Double Helix* 3.0 includes enhanced performance and query optimization; support for the Network Innovations' CL/1 connectivity platform; extensions to the *Double Helix* user interface to include *HyperCard*-style features; and new application development tools which simplify the creation of complex applications. *Double Helix* is the first and only database management system for the Macintosh to combine the flexibility of a relational system with a visual, iconic programming environment that allows users to easily and quickly generate solutions. ($595) Odesta Corporation, 4084 Commercial Ave., Northbrook, IL 60062. (312)498-5615.



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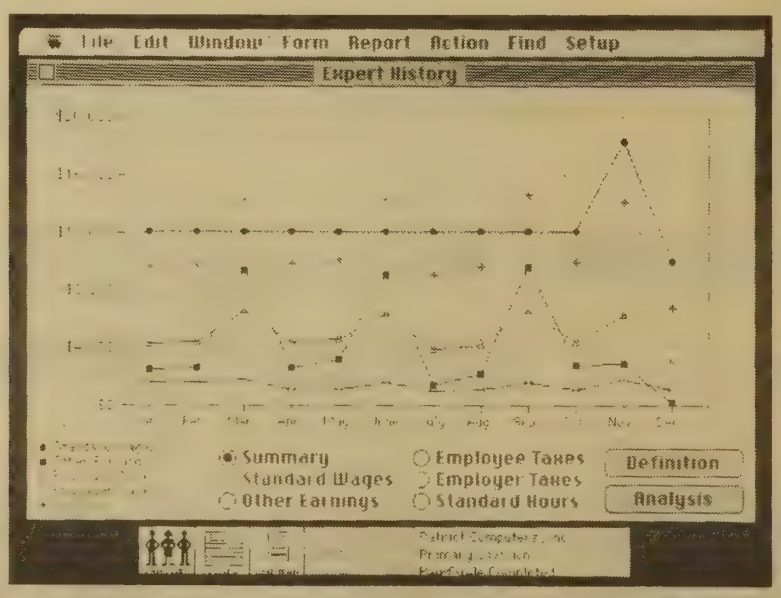

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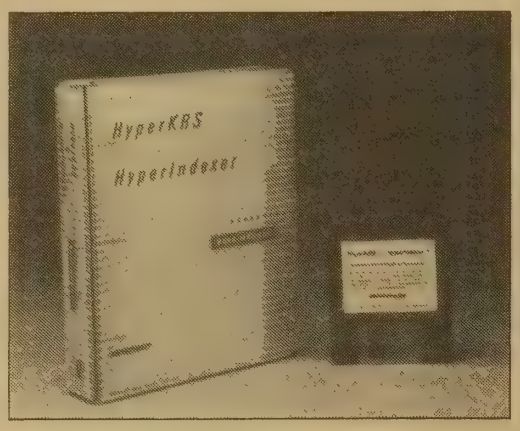

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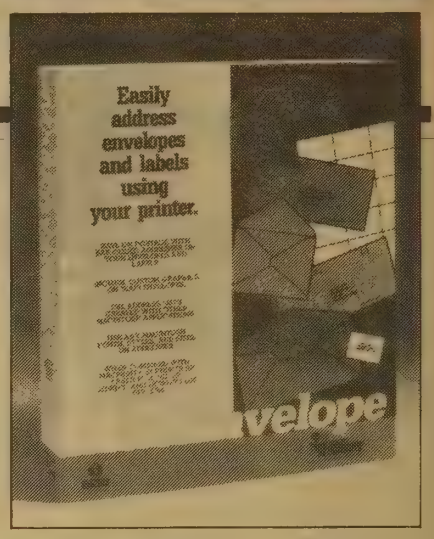

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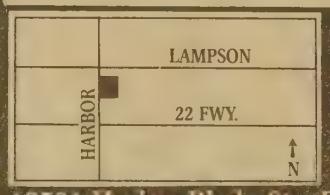

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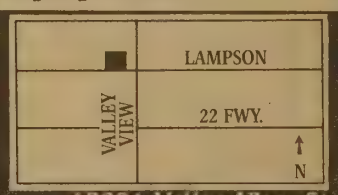

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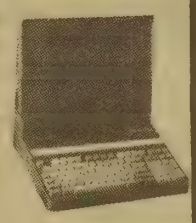

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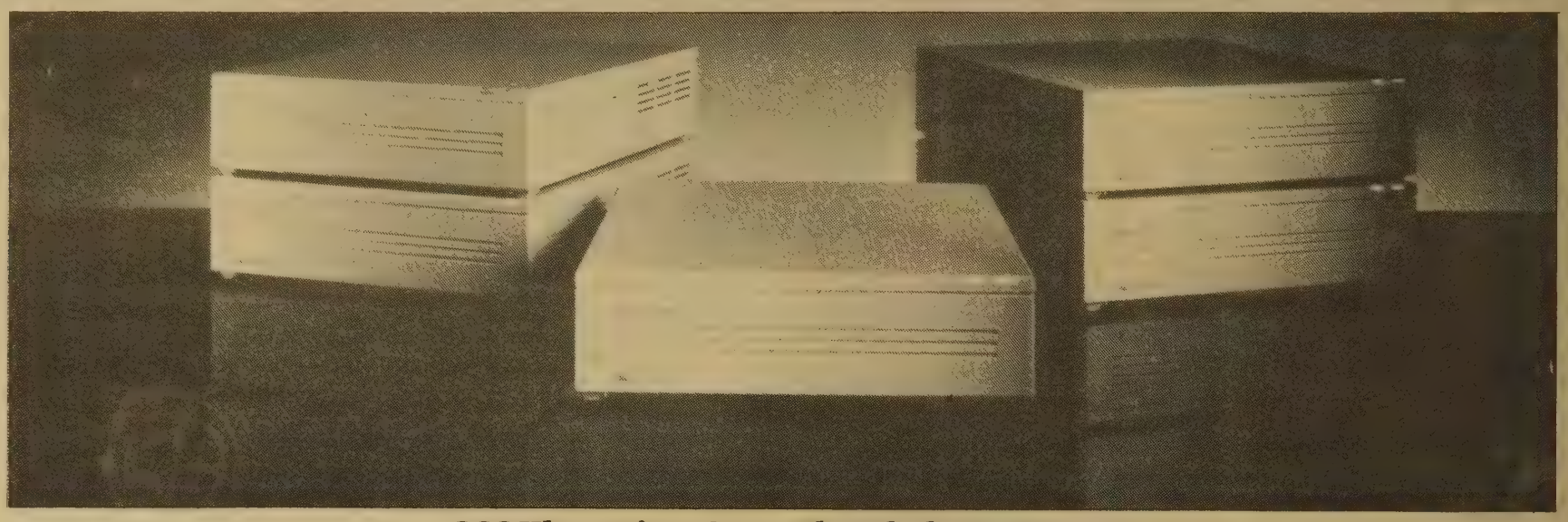

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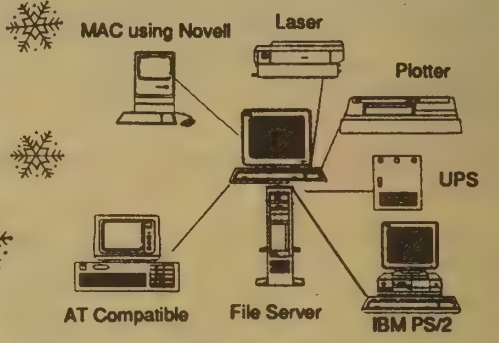

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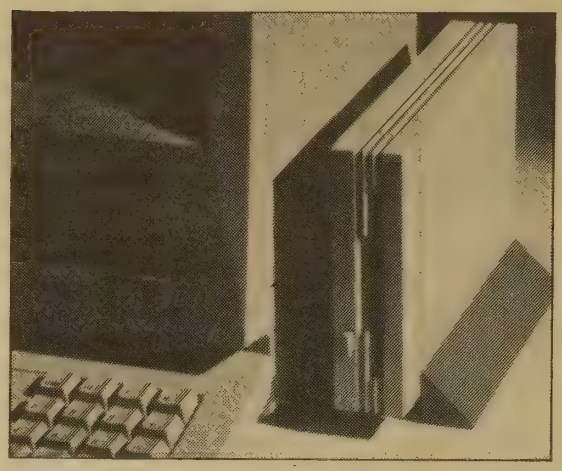
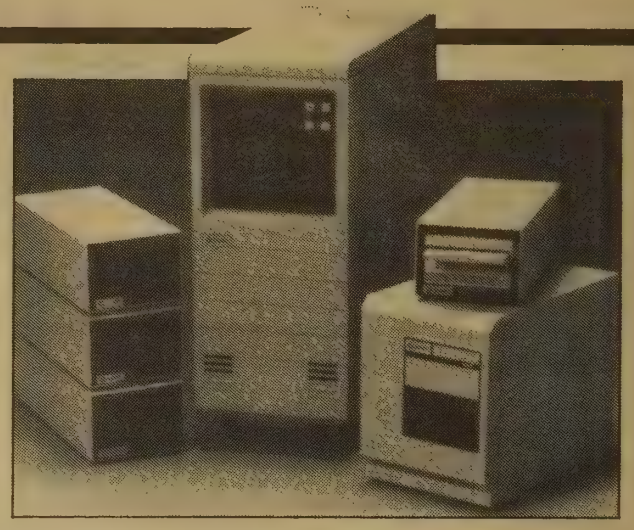


Fujitsu Puts Out Floppy Drive Under Its Own Name

Fujitsu has introduced an 800 K floppy drive for the Mac under its own name. The Fujitsu America 800 K External Disk Drive sells for $265, approximately 40 percent less than Apple's 800 K disk drive, and comes with a 12-month warranty. With this drive, Mac users can select from three placement options, allowing for optimization of available workspace. Using the Fujitsu America-supplied stand, the external drive can be mounted either vertically or horizontally, or it can be placed freestanding alongside the computer. And Fujitsu also offers the choice of a beige enclosure for the Macintosh Plus and older machines, or a platinum case for the newer Macintoshes. Fujitsu America, Inc., 3055 Orchard Drive, San Jose, CA 95134-2017. (408)432-1300.



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Under a strategic alliance with RACET Computes, Jasmine is marketing a full line of high-capacity disk and tape subsystems. This line of products includes the DirectDrive XL series of hard disk desktop mass storage subsystems with capacities of up to 656 Mb in one enclosure, and tape backup options of 150 Mb or 2.3 Gb; the DirectDrive XL series of free-standing mass storage subsystems with capacities between 600 Mb and 1.427 Gb in one enclosure, and tape backup options of 150 Mb or 2.3 Gb; the DirectTape XL series of 150 Mb and 2.3 Gb stand-alone tape backup products; and the 600 Mb DirectOptical erasable optical drive system.
Audrey Leeds or Matthew McIntosh, Jasmine Technologies, 1740 Army St., San Francisco, CA 94124.(415)282-1111.]

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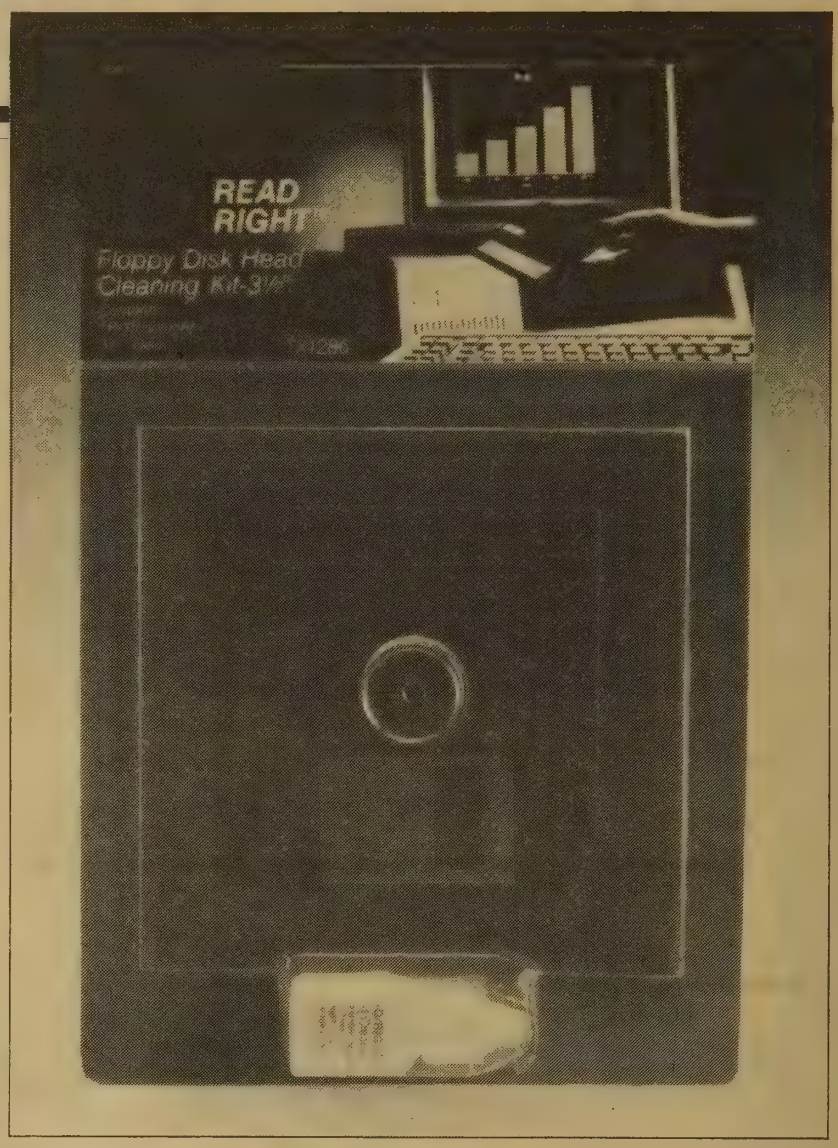
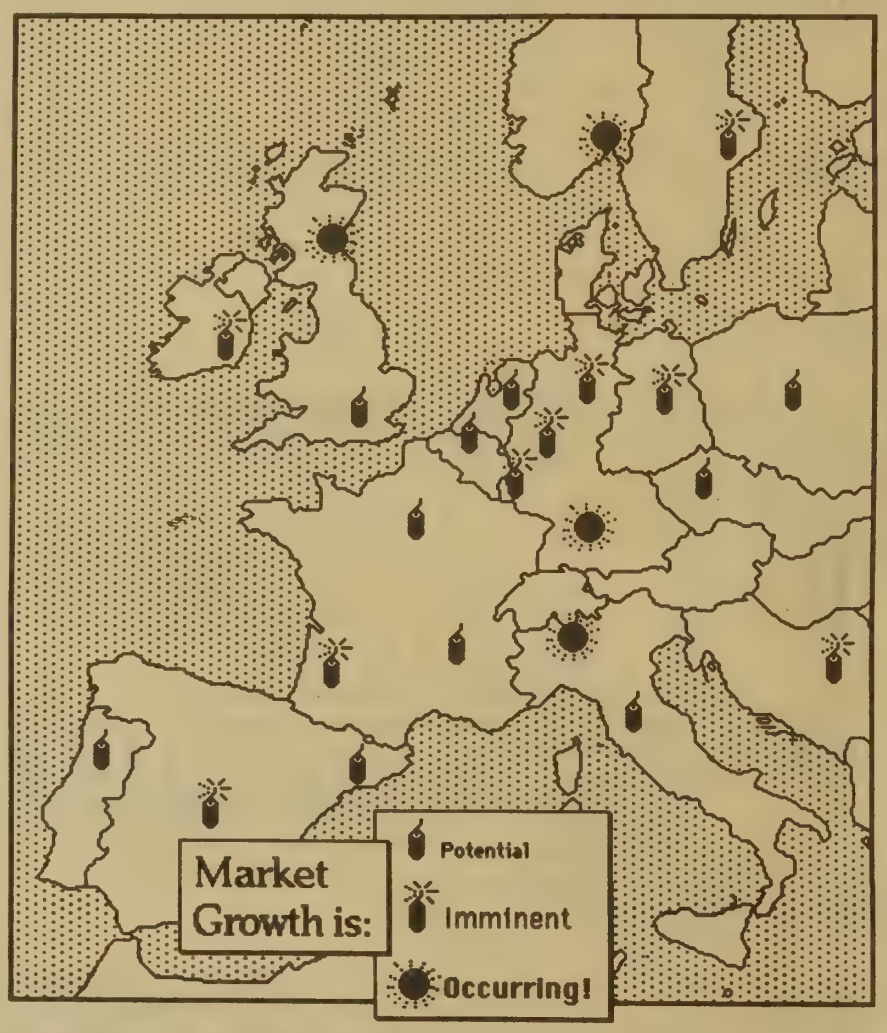
Clean Your Drive With This Kit

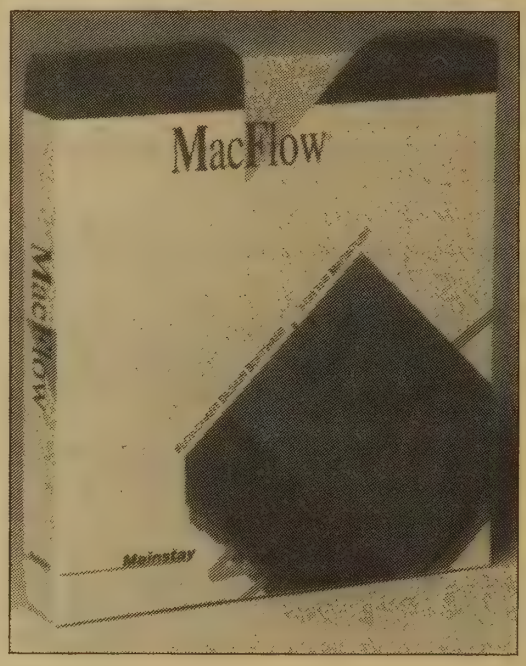
Fast, efficient cleaning of 31/2-inch floppy disk drive heads, either single- or double-sided, is provided by a two element preventive maintenance kit from Read/Right. The new kit contains a unique diskette with a built-in window that allows cleaning of both sides of dual-sided drives at the same time, and 23 grams of environmentally-safe non-aerosol cleaning solution. Read/write heads can be cleaned without taking apart the mechanism. The diskette and solution remove dust and oxide build-up from the floppy disk drive read/write heads. Each kit should last for about three months if used on the schedule recommended by Read/Right. Read/Right Products Division, The Texwipe Co, 650 E. Crescent Ave., Upper Saddle River, NJ 07458. (201)327-9100.





MacAtlas Provides Clip Art Maps

MacAtlas is a collection of map templates for graphic artists, newspaper editors, desktop publishers, and business professionals who need publication quality maps for their documents and presentations. *MacAtlas* operates within familiar graphics programs, which makes it ideal for users who need to create attractive maps quickly and easily. Whether a user wants PostScript, PICT, or Paint format, a compatible *MacAtlas* product is available. In *MacAtlas* EPSF and PICT versions, countries, states, and counties are drawn as separate objects that can manipulated individually. Users can add fill patterns, graphic objects, drop shadows, text, numbers, or arrange new customer map regions. ($199) MicroMaps Software, Inc., PO 757, Lambertville, NJ 08530. 1-800-334-4291.



MacFlow 3.0 Now Supports Color

MacFlow 3.0 allows users to draw in color any type of chart involving symbols and flow lines up to ten times faster than with traditional drawing programs or pen and pencil. A user simply drags pre-drawn symbols onto a page, connects them with lines, and types text into symbols and lines. The chart can be reorganized as desired; lines stretch and stay attached. All elements of a flow chart can selectively be assigned a color, improving the visual impact of a chart. Flowcharts can be entirely free-form and can include custom symbols. They can be printed on an ImageWriter or LaserWriter or exported to a desktop publishing or presentation program. *MacFlow* now permits flowchart symbols to be linked to documents of other Macintosh applications and to sub-launch these applications. For example, a flowchart symbol representing a quality control can even be linked to an *Excel* document which analyzes data for that event. ($245) Mainstay, 5311-B Derry Ave., Agoura Hills, CA 91301. (818)991-6540.

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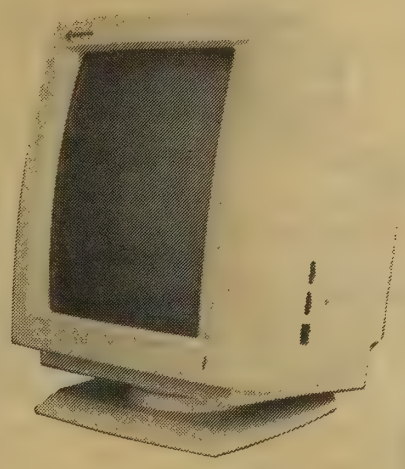

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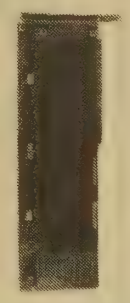

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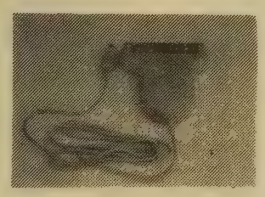

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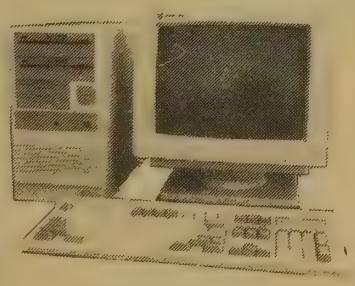

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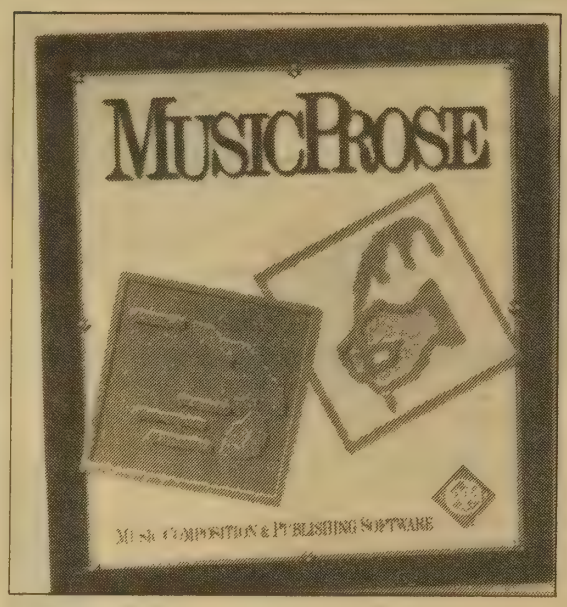
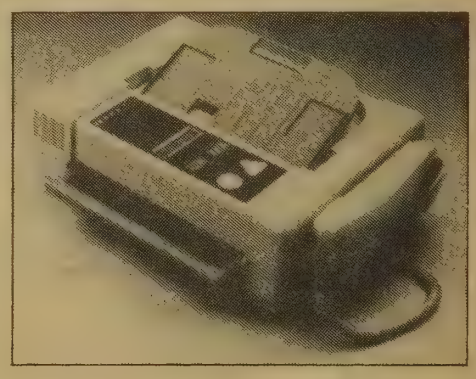


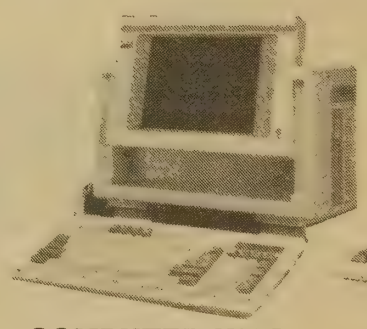
ENIGMA Technology Yields New MIDI Program

MusicProse is the second Macintosh program to be derived from Coda's ENIGMA software technology. The first ENIGMA-based product, *Finale*, was launched in September 1988 and is in use by professional musicians and composers. *MusicProse* is a less powerful version of *Finale* in some respects, as it includes the earlier program's most used features, but does not include the publishing-oriented features that have made *Finale* popular for high-end use. *MusicProse* was developed to answer the needs of the great majority of musicians who want a user-friendly and complete package that allows the most common music notation chores to be easily accomplished. ($249) Coda Music Software, 1401 E. 79th St., Bloomington, MN 55425-1126. (612)854-1288.

Tefax System Combines Five Integrated Functions

Relisys's Tefax System is a unit that combines five integrated functions: facsimile, scanner, line printer, modem, and computer interface utilizing built-in copier, scan mechanism, thermal print head, and electronics. The unit provides high-speed and high-resolution document image scanning, computer editing, printing, copying, transmission, and reception of text, half-tone images, and graphics. Used as a copier, any hard copy document original or stored document can be reproduced on the Tefax system. For paperless transmission, stored documents can be sent on command directly through the Tefax System to another standalone fax machine. For communications, a group directory of over 200 numbers can be stored, with an additional index of over 1000 individual contacts/customers, including name, address, and telephone number. In addition, the document can be set for automatic transmission to multiple destinations at programmed times. ($1495) Relisys, 320 South Milpitas Blvd., Milpitas, CA 95035. (408)945-1062.





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LCD—Portable Kit (640x400) 11" Kingtech	$680
LCD—Portable Kit (640x400) 11" Midern	$720
Gas Plasma Portable (640x400) Kingtech	$850
Gas Plasma Portable (640x400) PC-III	$950
CRT-Portable Kit 9 TTL AT/XT	$380

MONITORS

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Voltron 14"	$95
Quimax TTL 14" Monitor	$125
Relisys 14" EGA Monitor	$345
Nanao VGA Multisync 8060S	$545
Nanao VGA 9070S	$950
AOC EGA 14" Monitor	$325
AOC Multisync 14"	$425

MODEMS

Everex 2400 (Ext.)	$185
Everex 2400 (Int.)	$145
Everex 1200	$69
Telemidas 2400	$95
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MOTHERBOARD

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Seagate ST-138 Hard Disk (30 MB, 28ms)	$285
Seagate ST-225 Hard Disk (20 MB, 65ms)	$205
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Seagate ST-4096 Hard Disk (80MB, 28ms)	$575
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EFC PLUS (360/720K/1.2/1.44MB, 4Ports)	$65
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DTC-5160 Hard Disk Controller/XT (RLL)	$70
DTC-5280 HD/FDC Controller AT	$115
DTC-7280 HD/FDC Controller (1-1)	$145
DTC 7287 HD/FDC-RLL (1.1)	$169
WD-1003MM2 HD/FDC Controller AT (2-1)	$115
DTC-5287 HD/FDC Controller AT (RLL)	$139
Removable Hard Disk SQ 555 (44 MB, 25 ms)	$750

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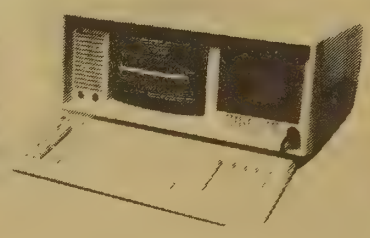

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Monochrome Graphics Printer Card	$45
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Everex EGA EV-659a w/o printer port	$125
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8748/49 Programmer UPW-481	$155
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Star Printer NX-1000 Rainbow Color	$225
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Epson Printer LQ-2550 (24-Pins, 324CPS)	$965

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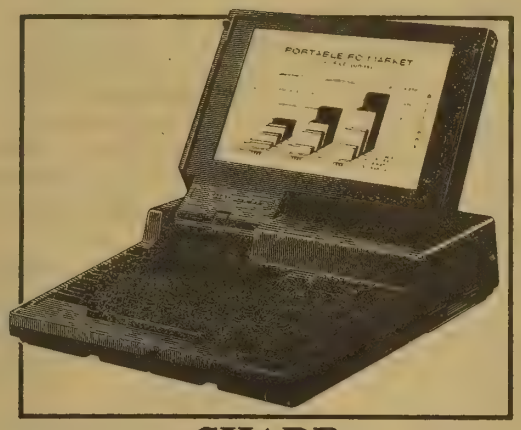

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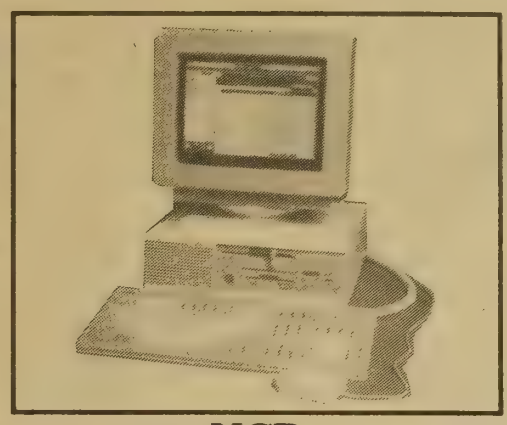

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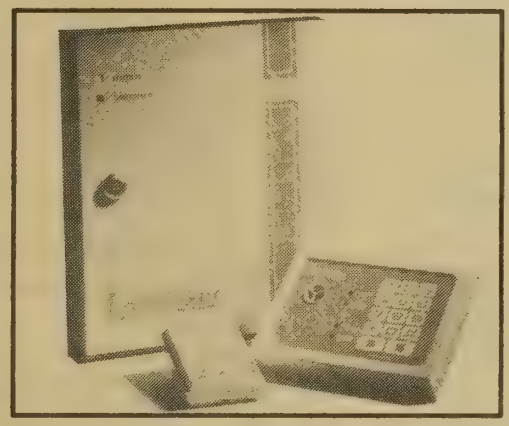

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In-house experts:
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Henry Sanders
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Engineering
Operating systems supported:
DOS
OS/2
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Everex
Calcomp
Hewlett-Packard (Plotters)
In-house experts:
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Mike Feyes
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Store Manager: Vik Shah
Address: 21000 Devonshire #107
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Phone: (818)998-0700
Specialties:
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Property Management
CAD
Operating systems supported:
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OS/2
Best-selling product lines:
AST
Sysgen
Seagate
In-house experts:
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Vik Shah
Carole Evans
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Service, training, support

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Store Manager: Ray Gallardo
Address: 21800 Ventura Blvd.
City: Woodland Hills Zip: 91364
Phone: (818)716-6120
Specialties:
Word Processing
Engineering/CAD
Desktop Publishing
Operating systems supported:
DOS
CP/M
UNIX/XENIX
Best-selling product lines:
Jade Computer
Epson
Panasonic
In-house experts: Contact the local store
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CAD
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Computer Hardware
Autodesk
Novell Network
In-house experts: Joseph Wu
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City: N. Hollywood Zip: 91606
Phone: (818)760-0738
Specialties:
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Video
Games
Operating systems supported:
AmigaDOS
TOS
Best-selling product lines:
Atari
Amiga
In-house experts:
Mark
Brett Hebdon
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Store Manager: Isaac Boudaie
Address: 9745 Mason Ave.
City: Chatsworth Zip: 91311
Phone: (818)998-3416
Specialties:
LANs
Accounting
CAD
Operating systems supported:
DOS
OS/2
Best-selling product lines:
DTK
Everex
Micronics
In-house experts:
Jack Boudaie
Isaac Boudaie
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Consulting and Software Selection
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Novell NetWare
Everex STEP Microcomputers
In-house experts:
Guy Mettle, MBA
Sandra Lashbrook, MBA
Robert Lane, BS, CIS
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Store Manager: Richard K. Stouffer
Address: PO Box 8366
City: La Crescenta Zip: 91214-0366
Phone: (818)248-1711
Specialties:
Stayaround Utilities
Operating systems supported:
DOS
Best-selling product lines:
Stayaround
In-house experts:
C. Hawkinson
R.K. Stouffer
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Complete support of Stayaround

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Store Manager: Mansour Rezuani
Address: 16935 Van Owen St. #D
City: Van Nuys Zip: 91406
Phone: (818)708-2853/800-351-7855
Specialties:
CAD
Accounting
LANs
Operating systems supported:
DOS
CP/M
OS/2
MacOSX
UNIX/XENIX
Best-selling product lines:
Okidata
Toshiba
Leading Edge
In-house experts:
Harold Rosenbaum
Rick Finn
Mansour Rezuani
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, consultation, 1-year warranty, package system prices

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Store Manager: John Eastman
Address: 18727 Ventura Blvd.
City: Tarzana Zip: 91356
Phone: (818)708-2200; FAX (818)708-0612
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard

PRIMARILY BUSINESS SYSTEMS

Store Manager: Milt
Address: 6308 Woodman #110
City: Van Nuys Zip: 91401
Phone: (818)782-1829
Specialties:
Legal
Accounting
Desktop Publishing
Operating systems supported:
DOS
Best-selling product lines:
Irwin
Okidata
Champion
In-house experts:
Milt
Bill
Chuck
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, setup, hardware maintenance, software support

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Address: 6650 Noble Ave.
City: Van Nuys Zip: 91405
Phone: (818)787-7678
Specialties:
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Novell LANs
Word Processing
Operating systems supported:
DOS
Best-selling product lines:
Acer
Compaq
Toshiba
In-house experts: Gene Souvecka
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, installation, consulting

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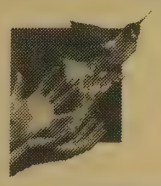

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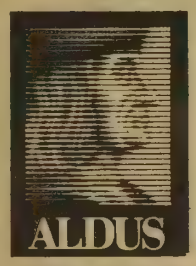

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206	ULTRA SCRIPT	199
207	ULTRA SCRIPT PLUS	299
208	VENTURA PROF EXTENSION	379
209	VENTURA VER 2.0	499
210	VIEW LINK	79
211	WHO-WHAT-WHEN	119
212	WILLMAKER	39
213	WORDPERFECT 5.0	221
214	WORDPERFECT 5.0 NODE	79
215	WORDPERFECT 5.0 SERVER	339
216	WORDPERFECT DATA PERFECT	299
217	WORDPERFECT EXECUTIVE	119
218	WORDPERFECT LIBRARY	69
219	WORDPERFECT OFFICE SERVER	249
220	WORDPERFECT OFFICE NODE	75
221	WORDPERFECT PLAN PERFECT	249
222	WORDSTAR 2000 LEGAL	269
223	WORDSTAR 5.5	199
224	WORKING HOURS	65
225	XEROX PRESENTS	319
226	XTPRO	69
227	XTREE	45
228	XTREE NET	199
229	XYWRITE III PLUS	229
230	NOVELL ADVANCED 286	1899
231	NOVELL ELS LEVEL I	499
232	NOVELL ELS LEVEL II	999
233	NOVELL SFT 2.15	2999
234	COMPLETE PC	CALL
235	ANSWERING MACHINE	239
236	COMMUNICATOR 96FAX/24 MODEM	635
237	FAX 9600	439
238	FULL PAGE SCANNER	595
239	OPTION BOARD	109
240	PLUS HARD CARD 20MB	550
241	PLUS HARD CARD 40MB	699
242	WORLDPORT 2400 MODEM	269
243	WORLDPORT 9600 FAX/MODEM	549

TOSHIBA T1000

80C88, 512K, 720 KB, MS DOS
Includes MS Works

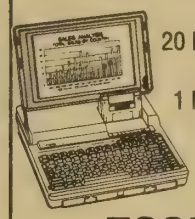
$629

TOSHIBA 1200HB

80C88, 1 MB RAM, 3 1/2", 720 KB, 20 MB HD, Back lit

$1899

TOSHIBA T1600



80C286, 12 MHz,
20 MB HD with 27 ms Access Time,
1.44 MB 3.5", PS/2 Compatible,
1 MB memory expandable to 5 MB

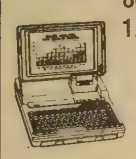
$3299

TOSHIBA 3100 E

80C86, 1 MB RAM, 20 MB Hard Drive, 20 ms

$2595

TOSHIBA T-1600/40



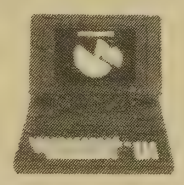
80C286, 1 MB RAM, 20 MB Hard Disk, 1.44 MB Hard Disk, 1.44 MB 3 1/2" Dr, Detachable Backlit EGA Display

$3499

TOSHIBA T-3200

80C286, 1 MB RAM,
40 MB Hard Disk, 1 Dr EGA

$3299



TOSHIBA T-5200

80C386, 2 MB RAM,
40 MB Hard Disk,
1.44 FI 29ms VGA

$4699

100 MB Hard Disk 25 msVGA

$5199

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CSUN, North Campus—December 17, 1989
Glendale Civic Auditorium—December 17, 1989
Riverside Convention Center—January 6, 1990

MicroTimes Southern California Computer Reseller Guide

Everex
Toshiba
In-house experts:
Randy Podolsky
Roger Ahula
Lance Larkin
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Turnkey systems, no-charge custom installation, complete test and burn in; no cost, excellent tech support hotline service

SUN COMPUTERS, INC.

Store Manager: Rick Pastor
Address: 18607 Ventura Blvd.
City: Tarzana Zip: 91356
Phone: (818)708-9988
Specialties:
Desktop
LANs
CAD
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Apple
Hewlett-Packard
AST
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support, service, training, networking

TOTAL PUBLIC DOMAIN

Store Manager: Anthony Shalita
Address: 11684 Ventura Blvd., Ste. 428
City: Studio City Zip: 91604
Phone: (818)785-7811
Specialties:
Public Domain Software
Operating systems supported:
DOS
In-house experts: Anthony Shalita

VALERIO ENTERPRISES, INC.

Store Manager: Rosangela Rizzi
Address: 18341 Sherman Way #104-F
City: Reseda Zip: 91335
Phone: (818)343-1038
Specialties:
Point of Sale
LANs
SCO/XENIX
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
VE 80386 System
VE 80286 System
Panasonic
In-house experts:
Ron Riazi
Larry Moore
Robert Zamora
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site warranty, in-house warranty, 24-hour turnaround in case of repair, 1-yr warranty parts and labor, service, training, support

Ventura

CHEQUE-MATE

Store Manager: Mark Whaling
Address: 749-A Lakefield
City: Westlake Village Zip: 91361
Phone: (805)496-7846
Specialties:
Accounting
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Insta-Pay Payroll
In-house experts: Mark Whaling
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
100% satisfaction

COMPUSOFT DATA SERVICES

Store Manager: Dan Aungst
Address: 1753-C Palmdale Blvd.
City: Palmdale Zip: 93550
Phone: (800)736-7103
Other store locations: 416 W. Lumber St., Lancaster, CA 93584
Specialties:
Business/Accounting
Entertainment
Training
Operating systems supported:
DOS
Best-selling product lines:
Buttonware
Pengo
Magee Enterprises
In-house experts:
Dan Aungst (Exec. Dir.)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support on products, training, all items sold are guaranteed against defect

PERSONAL COMPUTER CENTRE

Store Manager: Dan Clements
Address: 3637 Thousand Oaks Blvd.
City: Westlake Zip: 91362
Phone: (805)496-8090; FAX (818)889-3265
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard

SHAMROCK COMPUTER

Store Manager: Chip McMakin
Address: 828 Via Alondra
City: Camarillo Zip: 93010
Phone: (805)388-9045
Specialties:
PC Compatible Systems
Fixed-disk Storage
Operating systems supported:
DOS
Best-selling product lines:
Leprecard Hard Drive Card
Shamrock 386sx
Rapidisk Remove Disk Drive
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
30-day money-back guarantee, no restocking fee, dedicated tech support staff

Westside

APS—ADVANCED PERSONNEL SYSTEMS

Store Manager: Doug Coull, President
Address: 2017 Palo Verde Ave. Ste. 202
City: Long Beach Zip: 90815
Phone: (213)430-6741
Specialties:
Personnel Software
Optical Scanning
Desktop Publishing
Operating systems supported:
DOS
ProDOS
UNIX/XENIX
Best-selling product lines:
WordPerfect
Informix Database
APS Smartsearch
In-house experts:
David Bellman
Doug Coull
Harry Cowles
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site service, tele support, variety of warranties available, shipping nationwide

B + S MULTISOFT

Store Manager: A.S. Weisberg
Address: 1515 W. 190 St., Ste. 150
City: Gardena Zip: 90248
Phone: (213)527-3111/1-800-UNX-WNDO
Other store locations: Europe
Specialties:
Office Automation Software
Window Developer's Tools
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
B+S Multisoft Tek Ace Windows
B+S Multisoft Window Manager Indicator
In-house experts: JoAnne English
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-yr tech support (52 hours), 1-yr rotation program

BIPRO COMPUTERS

Store Manager: David Felker
Address: 201 Standard St.
City: El Segundo Zip: 90045
Phone: (213)640-0000
Other store locations: Hours M-F 8-6, Sat. 10-4
Specialties:
Engineering/ACAD
Database Mgmt.
Programming
Operating systems supported:
DOS
Best-selling product lines:
Probe
Goldstar
Citizen
In-house experts:
Phil Greenberg
Mark Borden
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site repair, free instruction, in-house warranty (parts exchange)

CORPORATE COMPUTER RENTAL

Store Manager: George Giaimo
Address: 3435 Ocean Park #201/260
City: Santa Monica Zip: 90405
Phone: (213)836-4446
Specialties:
Renting/Leasing
Office Automation
Desktop Publishing
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
IBM
Compaq
Apple
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free delivery and installation, free service, rent-to-own

CREATIVE COMPUTERS

Store Manager: Michael McNerney
Address: 4453 Redondo Beach Blvd.
City: Lawndale Zip: 90260
Phone: (213)542-2292
Other store locations: 318 Wilshire Blvd., Santa Monica; Ventura
Specialties:
Desktop Video
Desktop Publishing
Music
Operating systems supported:
AmigaDOS
Best-selling product lines:
Amiga
Electronic Arts
GVP
In-house experts:
Greg Niles
Mike McNerney
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support, 1-yr warranty, low prices

DOLPHIN MICROCOMPUTER CORP.

Store Manager: Robert Lee
Address: 1234 South St.
City: Long Beach Zip: 90805
Phone: (213)422-4444
Specialties:
LANs
Operating systems supported:
DOS
Best-selling product lines:
Seagate
Fujitsu
Nanao
In-house experts: Dan Lee
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
24-hour turnaround service

GATETRONIX CONTROL SYSTEMS, INC.

Store Manager: Ben Nguyen
Address: 15541 Broadway Center St.
City: Gardena Zip: 90848
Phone: (213)715-6086
Specialties:
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
PC Clone
In-house experts: Service Manager
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):

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COMPUTER SUPERSTORE
SERVICE PC BUSINESS SINCE 1984

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HUNDREDS OF ITEMS IN
STOCK FOR YOUR
ONE-STOP SHOPPING

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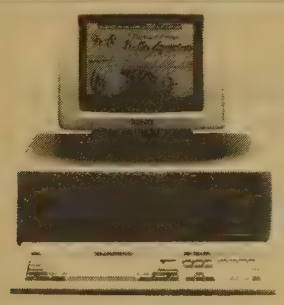
- ACCESSORIES
- BOOKS
- SOFTWARE

BEST PERFORMANCE SYSTEMS



Top-386 20MHz, Cache
- 20MHz, 80386
- 1MB Memory, AMI MB
- 1.2MB Floppy Drive
- 64KB Cache Memory
- 220W Power Supply
- FDC/HDC
- 101 Enhanced Keyboard
- MGP Card
- Monochrome Monitor

$1549

- For 33MHz, 32KB Cache **Call**
- For 25MHz, 32KB Cache **Call**

Top-386 SX System
- 16 MHz, 80386 SX
- 1 MB Memory
- 1.2 MB Floppy Drive
- 220W Power Supply
- FDC/HDC Card
- 101 Enhanced Keyboard
- MGP Card
- Monochrome Monitor

$899

Top-386, 25MHz, Cache
- 25MHz, 80386-25
- 1 MB Memory, up to 8MB
- 1.2MB Floppy Drive
- 220W Power Supply
- FDC/HDC Card
- 101 Enhanced Keyboard
- MGP Card
- Monochrome Monitor
- 32KB Cache Memory

$1475

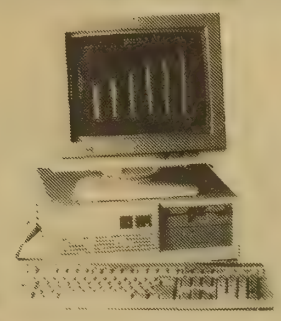
XT Turbo 10 MHz
- 640KB Memory
- 8088-1, 10MHz
- 360KB Drive
- Floppy Disk Controller
- MGP Card
- Monochrome Monitor
- Enhanced Keyboard
- 40MB Hard Disk (8450)

$449

Top-286
- 12MHz, 80286-12
- 512KB Memory
- 1.2MB Floppy Drive
- Monochrome Monitor
- 101 Enhanced Keyboard
- MGP Card
- 20MB Hard Disk (8450)

$859

PREMIUM 286 & 386



AST Premium/286
1MB RAM, 10MHz, 1.2 floppy drive, DOS 3.3, GW Basic

$1195

AST 286 Bravo
512K RAM, 8MHz, 1.2 floppy drive, MGP, Monitor

$945

Call For Other Configurations

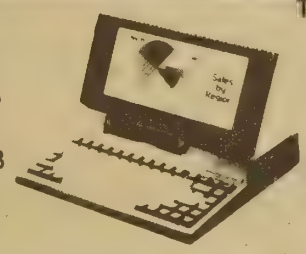
PRINTERS

PANASONIC
KX-P-1124
- 192 cps
- 63 cps NLQ
- Friction & Tractor
- 6 KB Buffer ■ 24 pin

$289

P1180	$179
P1191	$219
P1124	$289
P1092i	$299
P1624	$419
P1595	$439
Epson LX-810	$189
Epson LQ-510	$329

LAP-TOP CORNER



	TOSHIBA
T1000	$619
T1200F	$1269
T1200FB	$1450
T1200H	$1845
T1200HB	$1995
T1600	$3095
T3100E	$2695
	ZENITH
Supersport 286, Model 20	$2999

MONITORS

NEC IIA (800V, 600, VGA)	$499
NEC 3D (1024x768, 0.28mm)	$599
Samsung 14", Multisync	$429
Zenith 14", Flatscreen VGA	$589
Hyundai EGA	$299
Samsung 14", Flat, SM-430	$95
Casper TTL	$69
Hyundai VGA	$309

VIDEO CARDS

CGP card	$45
MGP card	$39
Paradise VGA Professional VGA	$299
TATUNG VGA (16 bit, Paradise OEM)	$179
ATI VGA Wonder (256K)w/Mouse	$289
Video 7 Fastwrite	$285
Video 7 VRAM, 256K	$389
Orchid Prodesigner	$279
M2 EGA (800x600)	$109

FLOPPY DRIVE

TEAC 360KB	$59.00
TEAC 720KB	74.95
TEAC 1.2MB	$74.95
TEAC 1.44MB	$79.95

MOUSE

Logitech Mouse Serial (Hi-Res)	$65.00
Logitech Hi-Res, Serial, P5/2	$79.95
Logitech Hi-Res, Bus	$75.00
Microsoft Mouse	$79.95
Microsoft Mouse W/PB, Serial	$99.00
Microsoft Mouse W/Window	$129.95
Microsoft Mouse W/Easy CAD	$119.95

LASER PRINTER

Panasonic Laser Printer	$1349
Panasonic 1MB Memory Card	$299
HP Deskjet Plus	$689

SCANNER

Logitech Scan Man	$189
DFI Hand-Scan 3000	$159
Chinon Scanner W/OCR	$795
Chinon Scanner W/FAX	$695
DFI Hand-Scan 3000 Plus	$199

SOFTWARE • BOOK

MS DOS 3.3	$59.98
MS-DOS 4.01	$64.95
PC Tool V5.5	$79.50
DBASE IV	$445
Word Perfect	$219
Microsoft Excel	$299
Allways	$79
Harvard Graphics	$269
Lotus 1-2-3	$339
Page Maker	$469
Wordstar 5.5	$229
Q & A	$199
PFS: First Choice	$89
Laplink III	$84.95
Mouse Dose	$79.00

HARD DRIVE

Seagate ST-125, 20MB	$229
Seagate ST-138, 30MB	$289
Seagate ST-225, 20MB	$189
Seagate ST-251-1, 40MB	$329
Miniscribe 8430, 30MB	$219
Miniscribe 8450, 40MB	$275
Toshiba 155MB ESDI	$1195
Toshiba 44/66MB	$399
Toshiba 110MB, 72 PCR	$649

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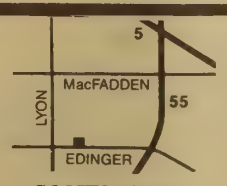

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MICRO CITY COMPUTER SUPERSTORE

MicroTimes Southern California Computer Reseller Guide

1-yr warranty parts and labor (hardware), customer support on software

HARVARD SYSTEMS CORP.

Store Manager: John Wilczak, President
Address: 1661 Lincoln Blvd., Suite 101
City: Santa Monica Zip: 90404
Phone: (213)392-6015
Specialties:
Electronic Publishing
Multi-Media
Presentation/Computer Graphics
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Xerox
QMS
Microtek
In-house experts:
Thomas Gutchigian
Steve Hale
Thomas Chesney
Special value-added services:
Consulting, product sourcing, system design, integration, installation, training, technical support, extended warranties, tele support

INTEGRATED COMPUTER SYSTEMS

Store Manager: Tony Pok
Address: 1813 Redondo Ave.
City: Long Beach Zip: 90804
Phone: (213)494-1230
Specialties:
CAD
Desktop Publishing
LANs
Operating systems supported:
DOS
MacOS
Best-selling product lines:
CalComp, Nth Engine
Hitachi, Nanao
AutoCAD, VersaCad
In-house experts:
Tony Pok
Greg Sink
Chuck Barrick
Special value-added services:
Training, service, support

JADE COMPUTER

Store Manager: Robert White
Address: 18503 Hawthorne Blvd.
City: Torrance Zip: 90504
Phone: (213)370-7474
Specialties:
Word Processing
Engineering/CAD
Desktop Publishing
Operating systems supported:
DOS
CP/M
UNIX/XENIX
Best-selling product lines:
Jade Computer
Epson
Panasonic
Special value-added services:
Full service and support. Satisfaction guaranteed or your money back. We've been an industry leader for 15 years.

MICRO COMPUTER LINE, INC.

Store Manager: John Cobb
Address: 150 S. Sepulveda Blvd.
City: El Segundo Zip: 90245
Phone: (213)640-9457
Specialties:
Accounting
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Epson
Hewlett-Packard
Leading Edge
In-house experts:
Bala V. Kumar (Accounting)
John Cobb (Network)
Special value-added services:
Service, training, support, no-questions-asked return policy, honor manufacturer's warranties

MICROAGE

Store Manager: Taheri Rangwala
Address: 15333 S. Hawthorne Blvd.
City: Lawndale Zip: 90260
Phone: (213) 973-0402
Specialties:
Accounting
LANs
Desktop Publishing
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
IBM
Compaq
Epson
In-house experts: Taheri Rangwala
Special value-added services:
More value and service

NETSERV-1

Store Manager: Lawrence J. Sachartoff
Address: 2461 205th St., Suite B-102
City: Torrance Zip: 90501
Phone: (213)618-0433
Specialties:
Novell
DCA/IOnet
Banyan Vines
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Novell NetWare
Gateway
DCA/IONet
In-house experts:
Edward Carrion
Lawrence J. Sachartoff
Special value-added services:
Training on applications and networks, remote and on-site network support, full tech suport, maintenance on all hardware, on-site and depot service, research and development, with emphasis on network applications

PERSONAL COMPUTER CENTRE

Store Manager: Anthony Barthel
Address: 16811 Hawthorne Blvd.
City: Lawndale Zip: 90260
Phone: (213)214-1501; FAX 371-2512
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard
In-house experts:
Tony Barthel
Sean Lankford
Bob Barber

PERSONAL COMPUTER CENTRE

Store Manager: Sean Shouroush
Address: 22533 Hawthorne Blvd.
City: Torrance Zip: 90505
Phone: (213)373-0022; FAX 373-6144
Specialties:
Desktop Publishing
LANs
OS/2
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Apple
IBM
Hewlett-Packard

SHEPHERD INFORMATION SYSTEMS

Store Manager: Curtis B. Jackson
Address: 6818 LaCienega Blvd., Ste. 204
City: Inglewood Zip: 90302
Phone: (213)215-1808
Specialties:
Accounting
Construction
Distribution
Operating systems supported:
DOS
OS/
UNIX/XENIX
Best-selling product lines:
Compaq
AST Research
IBM
In-house experts:
Kirt Dupart
Tea R. Jackson
Curtis B. Jackson
Special value-added services:
On-site service, hotline support, full software training, 15-month warranty on all computer products sold

SUN COMPUTERS, INC.

Store Manager: Edgar Molleda
Address: 1848 Pacific Coast Hwy.
City: Lomita Zip: 90717
Phone: (213)325-6200
Specialties:
Desktop
LANs
CAD
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Apple
Hewlett-Packard
AST
Special value-added services:
Tech support networking, service, training

SUN COMPUTERS, INC.

Store Manager: Paul Paz
Address: 20925 S. Bonita St.
City: Carson Zip: 90746
Phone: (213)329-8373
Specialties:
Desktop
LANs
CAD
Special value-added services:
Tech support, networking, service, training

SUN COMPUTERS, INC.

Store Manager: Robert Drew
Address: 11841 Wilshire Blvd.
City: W. Los Angeles Zip: 90025
Phone: (213)477-6538
Specialties:
Desktop
LANs
CAD
Special value-added services:
Tech support, networking, service, training

TYPEWRITER, INC.

Store Manager: Ronald M. Botwin
Address: 219 E. Broadway
City: Long Beach Zip: 90802
Phone: (213)437-0546
Specialties:
Desktop Publishing
Word Processing
Accounting
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Microsoft
dBASE
PFS
In-house experts:
Dewey Warth
Ronald M. Botwin
Bryan Gentry
Special value-added services:
Complete free training and support until the customer is confident in her/his abilities to use the product. Complete service of hardware.

UQM COMPUTER CORPORATION

Store Manager: Frank Tsai
Address: 22395 S. Western Ave., #304
City: Torrance Zip: 90501
Phone: (213)782-1422
Specialties:
LANs
Accounting
Communication
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Novell
Panasonic
Relisys
In-house experts:
Jimmy Tsai
Frank Tsai
Special value-added services:
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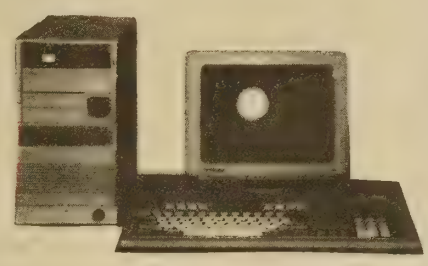

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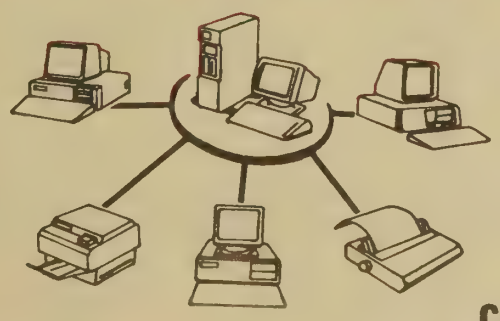

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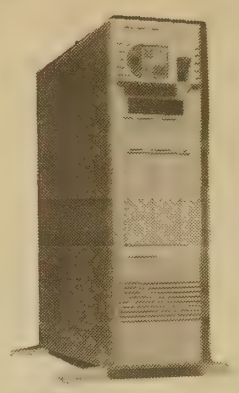

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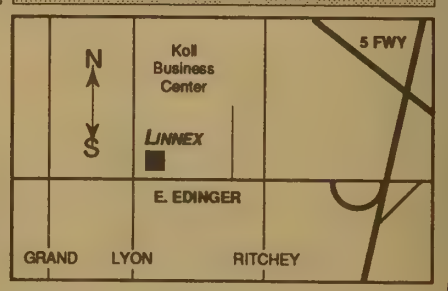

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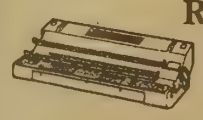

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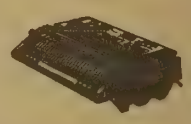

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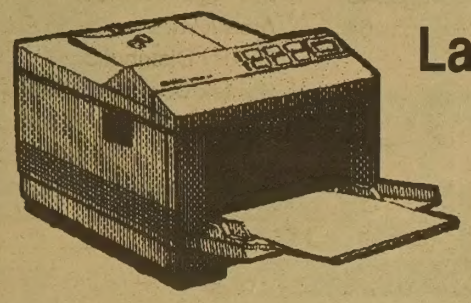

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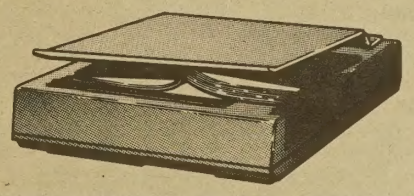

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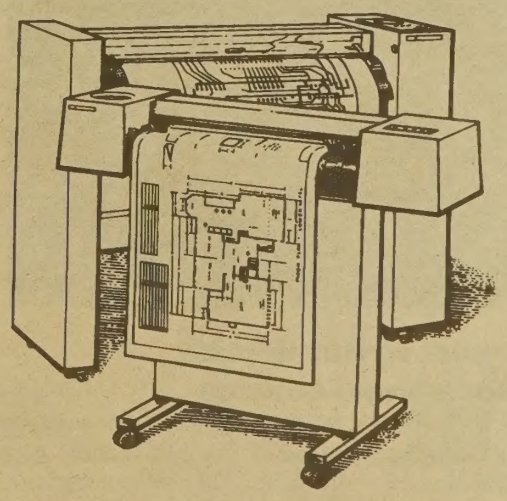

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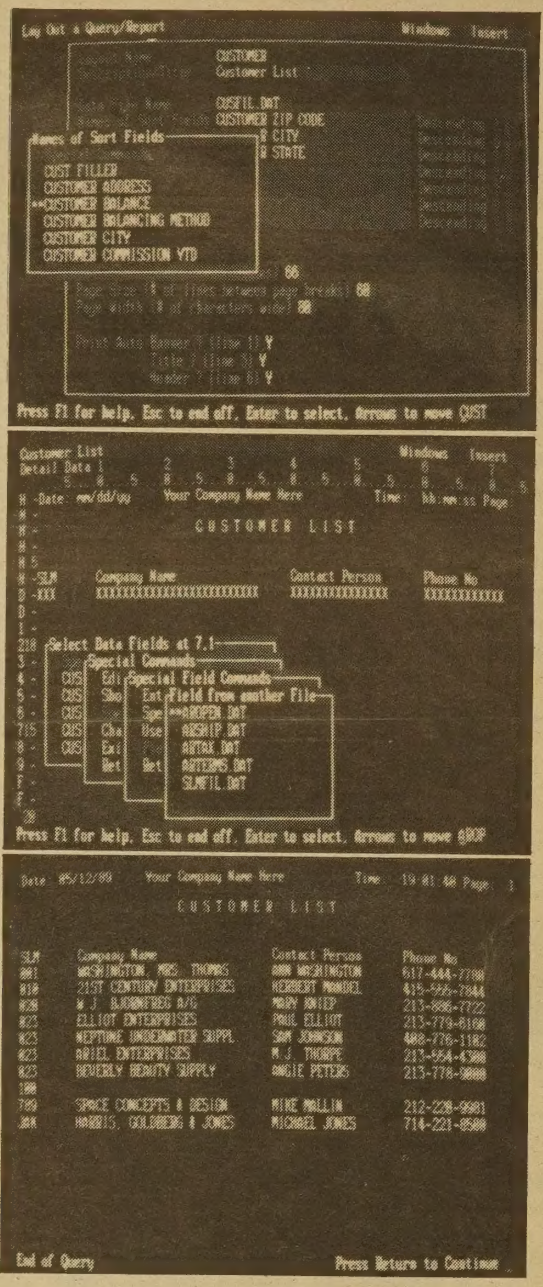
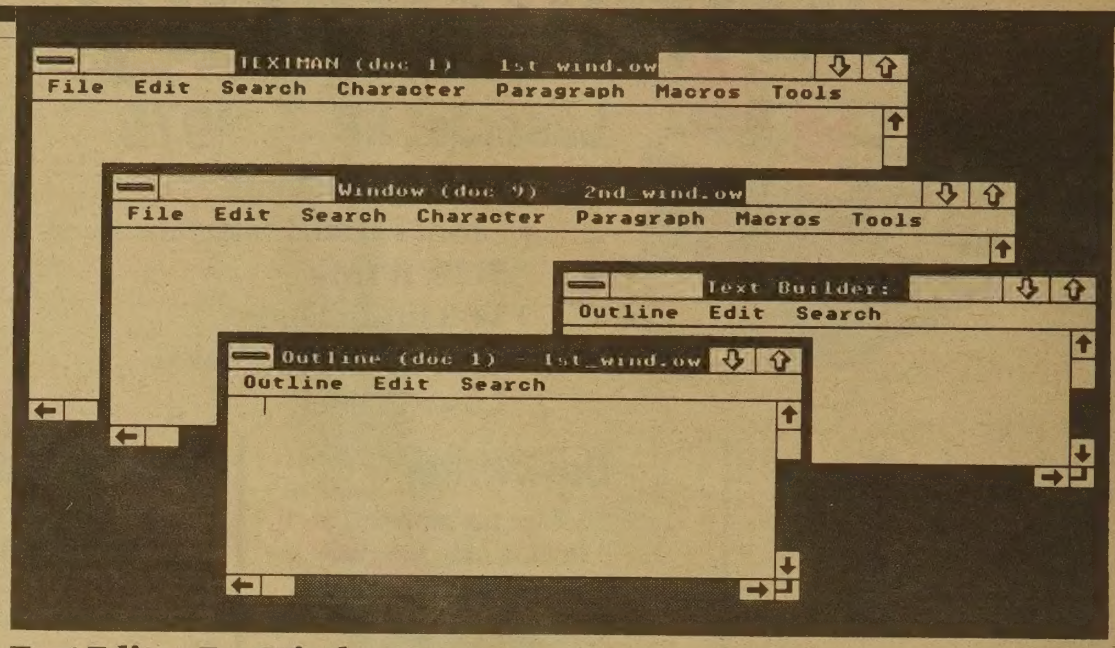


Report Writer Release Sports New Features

Snow Software's DOS, UNIX, and LAN versions of its new *Snow Report Writer* 3.02 include new features to meet the needs of a new generation of users. When using RM COBOL 85 Native Indexes in sorting and doing lookups, *Report Writer* runs up to ten times faster than before. It can now also look up and merge 15 files simultaneously, and produce report formats that are not limited to column formats. The new version includes pull-down menus, as opposed to commands or passwords (even in UNIX). *Snow Report Writer*, first released in 1987, puts a query facility, spreadsheet link, and report writer in one package. It gives you the ability to read and write to over 150 business applications and languages. *Report Writer* runs on DOS, UNIX, XENIX, ULTRIX, LAN, NCR Tower, and AT&T 3B2 systems. ($695) Snow Software, 2360 Congress Avenue, Clearwater, FL 34621. 1-800-283-7669.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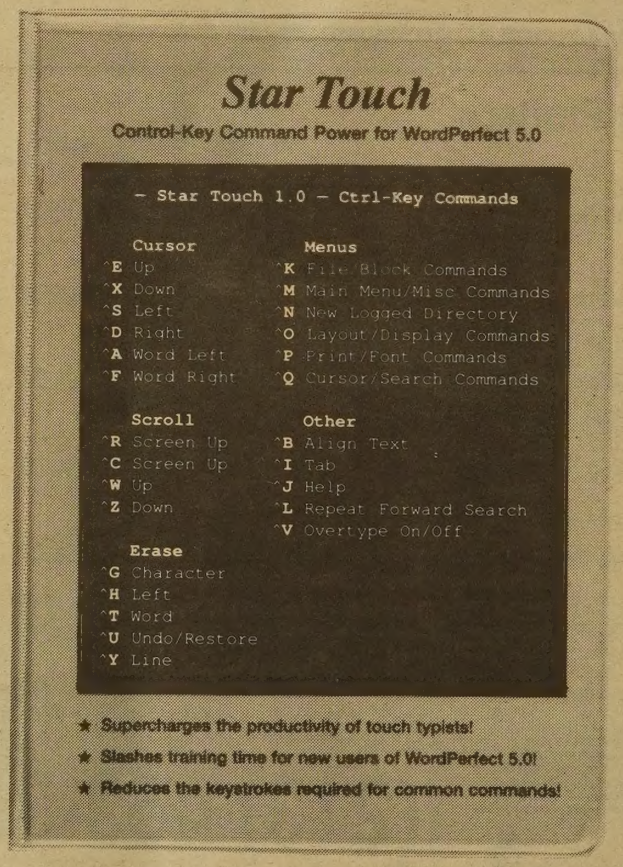
TextManager, suitable for text editing or word processing, is a text editor/formatter, outliner, and text library manager in a compact application. Key features include macro-commands, extended search/replace functions, and a user-configurable keyboard. *TextManager* provides two text windows for editing up to 10 documents at once. The WYSIWYG display supports all MS-Windows fonts and effects. And *TextManager* can build indexes, compare document revisions, and insert moveable bookmarks. Full text formatting capabilities include page breaks, justification, spacing controls, custom headers/footers, etc. ($99) Solea Systems, 61 Bennington, Irvine, CA 92720. (714)551-1852.



Star Touch 1.0 Provides Control-Key Commands For WordPerfect

Starboard Soft has announced the release of *Star Touch* 1.0, a new program designed to improve the productivity of *WordPerfect* 5.0 users by enabling them to use the Control-Key editing commands made popular by such programs as *WordStar* and *SideKick*. Control-Key commands facilitate touch typing because the hands remain on the Home keys. *Star Touch* is designed for experienced computer users who already know traditional Control-Key commands and want to exploit that knowledge. It increases the typing speed of experienced *WordPerfect* 5.0 users and sharply reduces the training time for new users of the application. *Star Touch* is written in the *WordPerfect* macro language and functions as an integral part of *WordPerfect*. Menus are displayed only when called by the user. The program does not interfere with the use of *WordPerfect*'s regular commands. It increases memory requirements by approximately 32 K. ($19.95) Starboard Soft, 1125B Arnold Drive, Martinez, CA 94553. (415)372-5304.

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